WÜRTH GULF SUBMITTAL

WEATHER SEALANT W-FR

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1) Company Profile

WÜRTH

COMPANY PROFILE

Würth Means quality everywhere and every time





VISION | WÜRTH GROUP

Our vision: Becoming the number 1 in the eyes of our customers as the best sales team. As a family business with a strong corporate culture, the Würth Group is very well-positioned to achieve this goal.

OUR MISSION

Our mission is to develop long-standing and mutually beneficial relationships with our customers, suppliers and employees. We provide superior quality products and services that exceed our customer expectations. We are committed to build upon our brand as being synonymous with the best in the industry, a brand that our stakeholders will be proud of.

OUR PRINCIPLES

We request and promote achievements.
The greater the success, the more freedom and liberty.
We are optimistic, dynamic and have powers of self-assertion.
We passionately fight for success.
We consistently pursue everything that has proven to be successful, and we try out new things.
We strive for perfection in every area of our activities.
We assume responsibility for our actions, work in mutual respect and appreciation, are straightforward and predictable in everything we do.
The term we consider most important in dealing with each other is ''Thank You''.

ABOUT WÜRTH GROUP

The Würth Group is the global market leader in its core business:

- Established in 1945 in Germany
- Established in 2000 in UAE
- Around 120,000 products
- The sale and manufacturing of fastening and assembly materials.
- In more than 80 countries, Würth Group has 83,000 employees and 2,400 pickup shops.





OUR STRATEGY

Quality
True to its motto "Quality beats price," Würth is positioned at the very top of the quality spectrum: We do not only offer top-notch quality when it comes to our products, but also for our services.

Würth - a strong brand
We want to inspire our customers – all over the world, with identical quality and the same brand promise. This means that we support our customers actively and in a solution-oriented manner. This way, they can focus on their business. We are working passionately to optimize our products and services constantly.

The sales force is the company's heart and soul
One of our particular strengths and a key to the Würth Group's success story is the system of direct selling through our sales force organization.

More than 33,000 permanently employed sales representatives all over world advise our customers and see to it that craft and industry businesses are offered product solutions tailored to their needs as well as optimal services. Thanks to our specialization through the divisions Automotive, Cargo, Metal, Maintenance, Maritime, Installation, Industry, Construction, Wood, every sales representative is a competent contact in his/her line of business, ensuring individual advice. This approach makes Würth a reliable partner for its 3.9 million customers worldwide.

Active in the market over 80 countries
We are a global player and currently active on all five continents with more than 400 Würth companies. Thanks to this strong presence, our customers, be they a small craft enterprise or an international industry business, can reach us easily. They are certain to receive Würth's top-rate product and service quality wherever they may be.

At the same time, the Würth Group's decentralized structure provides the possibility to react flexibly to the requirements of local markets and answer to individual needs.



"Sports, Fun & Games in the Würth Collection": The exhibition at Kunsthalle Würth in Schwäbisch Hall focuses on the phenomenon of leisure on 1st November 2022.

WÜRTH CARES

The Würth Group and the Würth Foundation contribute to a vibrant cultural landscape and the people's social welfare. The Group runs, for instance, five museums in the German Hohenlohe region and another ten associated galleries across Europe that display international works of art, mainly from the Würth Collection. Würth Philharmoniker as the musical ensemble of Reinhold Würth Musikstiftung gGmbH is the result of the Group's involvement in classical music. In addition, the Würth Group ond the Würth Foundation are committed to helping people with a disability. Hotel-Restaurant Anne-Sophie and our commitment at the Special Olympics ore examples for this. Another focus is on education and research, be that at Freie Schule Anne-Sophie schools, funded by the Würth Foundation, or Reinhold Würth Hochschule. The Würth Group's main sports sponsoring focus is on soccer and winter sports.

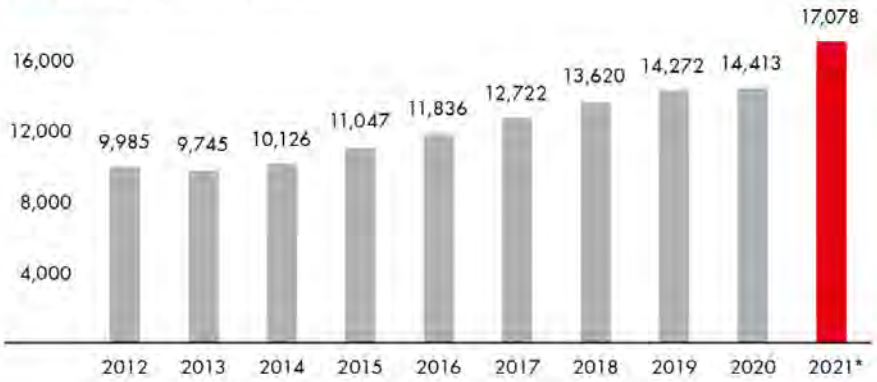
The Würth Group also lives up to its environmental responsibility. Being carbon neutral and operating in a circular way are focus topics. Adolf Würth GmbH & Co. KG wants to be carbon-neutral at all sites in Germany by 2024. The Sustainability Report that will be published in the fall of 2022 will contain information about the Group's sustainable activities.

FACTS AND FIGURES

Würth Group 2021

Sales

Würth Group in millions of EUR



* preliminary

Operating result before taxes

Würth Group in millions of EUR

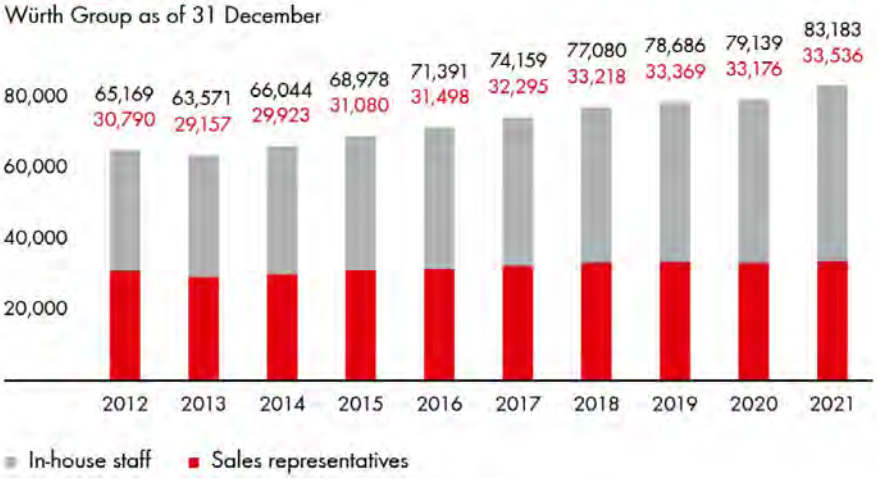


The consolidated financial statements of the Würth Group are prepared in accordance with the International Financial Reporting Standards (IFRS).

*preliminary

Employees

Würth Group as of 31 December



THE 2021 FISCAL YEAR

According to the preliminary annual financial statement, **the Würth Group** reported a sales volume of EUR 17.1 billion in 2021 (2020: EUR 14.4 billion), corresponding to a plus of 18.5 percent or 19.0 percent adjusted for currencies. In Germany, the Würth Group's sales grew by 14.1 percent to EUR 6.9 billion (2020: EUR 6.1 billion). With EUR 10.2 billion (2020: EUR 8.3 billion), the Würth companies abroad achieved even more successful results.

According to the preliminary consolidated financial statements, **the operating result** of the Würth Group is clearly up on the previous year with EUR 1.2 billion (2020: EUR 775 million).

The number of employees increased by 4,044 to 83,183 in 2021 (2020: 79,139 employees). In Germany, the number of employees amounts to 25,438. Around the world, the Würth Group employs more than 33,000 sales representatives.

New administration building

In close proximity to the main administration building at the Künzelsau-Gaisbach site, Würth plans to build a new office and administration building. It will be a 49-meter high-rise offering around 375 work spaces. Adolf Würth GmbH & Co. KG launched an international architectural design contest for the planning and implementation of this construction project. Stuttgart-based architects ORANGE BLU building solutions won with its "sculpture of sustainability" design. The focus of this building project is on sustainability and circular economy: It will be based on a hybrid wood construction. The high proportion of prefabricated wood elements will reduce the carbon footprint.

The new building is a clear commitment of the Group to the development of the Hohenlohe location, while also corroborating the further growth of the Würth Group's parent company.

THE CORPORATE GROUP

The success story of the Würth Group

Adolf Würth laid the foundation in 1945 when he set up Adolf Würth GmbH & Co. KG in Künzelsau, today's parent company of the Würth Group. After his father's early death in 1954, Reinhold Würth took over at the helm of the family business at the age of 19. The company began to expand into international territory in 1962 as the first foreign company was founded in the Netherlands. Today, the Würth Group is the global market leader in its core business: the sale and manufacturing of fastening and assembly materials. The Würth Group is operating worldwide and currently consists of more than 400 companies with more than 2,400 pick-up shops in over 80 countries. The group of companies has more than 83,000 employees.

The Operational Units of the Würth Group

The Würth Group is divided into two operational units: Würth Line and Allied Companies. In the Würth Line's core business, the sale and manufacturing of assembly and fastening materials, the Würth Group is a firmly established market player. Offering a range of more than 125,000 products, Würth is a reliable partner for more than four million customers from the trades and industry. Other trading and production companies, known as the Allied Companies, operate in related business areas, ranging from electrical wholesale and electronics to financial services. The performance of the Würth Group is distinguished by customer proximity, services and excellent quality.



Construction works of the new administration building in Künzelsau are scheduled to begin in 2024.

DIVISIONS

AUTOMOTIVE

Targets customers like car garages, vehicle fleets, automotive refurbishers and dealers. Including authorized dealerships of car manufacturers and independent workshops as well as special shops and service providers. Concentrates on consumables for repairs to chemical-technical products for maintenance, servicing and bodywork, and tools for pneumatic and electrical machines.

- **Cargo Subdivision**

Targets customers like authorized dealers and independent workshops as well as specialized workshops and commercial vehicle service providers. Concentrates on fastening, assembly and cleaning products required especially for the maintenance, repair and servicing of commercial vehicles in these segments.

CONSTRUCTION

Encompasses all sales units responsible for serving customers in the buildings industry, extension and facade, finishing trades, construction companies, roofers, plasterers, stucco masons, dry construction firms and direct supplies to building sites.

- **CSPM Subdivision**

Construction-Site-Project-Management Division focuses on larger scale building contractors civil engineering and road construction and offers customized logistics solutions, such as building site containers filled with products.

METAL

Targets customers like metalworking and metal processing industries such as metal & steel fabricators, filters, and machine & vehicle manufacturers. Concentrates on requirements of anchor & dowel systems, tools & electrical machines as well as DIN and standard parts for operating & processing variable metals.

- **Maintenance Subdivision**

Targets customers like in-house repair shops of industrial enterprises, facility and installation maintenance of hotels, airports, sewage plants, clinics and hospitals, theaters, recycling companies as well as garden and landscape specialists. Concentrates on complete product range for minor repairs and products for servicing, maintenance and care.

WOOD

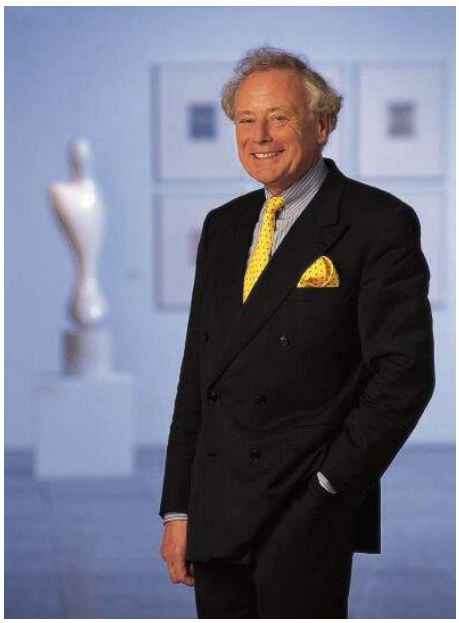
Targets customers in the entire woodworking and wood processing trade, typically interior design and decoration, furniture, windows and doors , exhibition stand manufacturing and installation. Concentrates on product spectrum covers furniture fittings, the entire range of fastening materials and sealing technology as well as tools, machines, abrasives and chemical-technical products.



History

In 1945, Adolf Würth, founder of the Würth Group, set the milestone to the vigorous journey of Würth's success that extends until this day. After the early decease of Mr. Adolf, his son Prof. Dr. h. c. mult. Reinhold took over his father's path of success and continued leading an institution of triumph; the Würth Group.

This institution is developing vibrantly year after year; where starting with a single company in Southern Germany in 1945 has dynamically expanded to reach nowadays more than 400 companies in 80 countries around the globe; marking an international recognition of our activity in several sectors of the market around all five continents



Our Philosophy

Würth Group is a business that aims not only to keep its customers satisfied, but also to keep them inspired. This aim is achieved by thriving constantly to lighten the burden on our customers, enabling them to focus entirely on their work. Thanks to Prof. Reinhold Würth Our business has a vivid orientation driven by:

- Strong brand strategy
- Future oriented product policy
- Customer's convenience
- Clear quality offensive
- Thinking in terms of visions
- Forceful corporate culture

PARTNER OF THE CUSTOMER

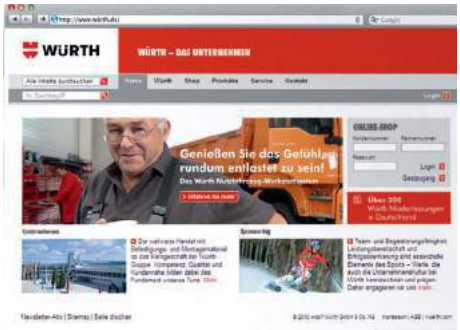
100,000 products and dimensions

are suited to the needs of our customers in industry and trade. Würth offers you as our customer a comprehensive product package - all in one



Online - always up-to-date

The Würth catalog available on the internet (WüKO) informs you about all products and gives you the possibility order online. you thus have access to the entire range and can save time also available in English.
www.wuerth.de/wueko



The brands

WÜRTH

Our name is a promise: best quality, best service, highly motivated employees. This has been our maxim for more than 65 years.

ASSY

The chipboard screws with innovative drive to meet the most exacting demands – meanwhile a classic.

ORSY WÜRTH

Well thought-out storage and retrieval systems offer order and a system for better overview, direct access and safe storage.

master

The strong line of power tools, battery-operated tools and compressed air tools as well as excellent service for professional users.

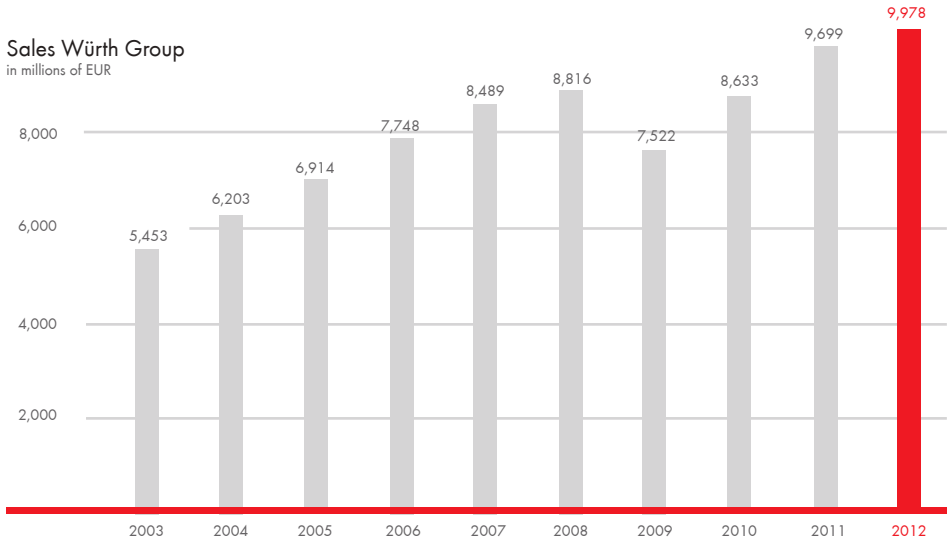
ZEBRA

This top quality brand offers solutions to specific problems, maximum economy in use, functionality and long service life

Würth Group around the globe:

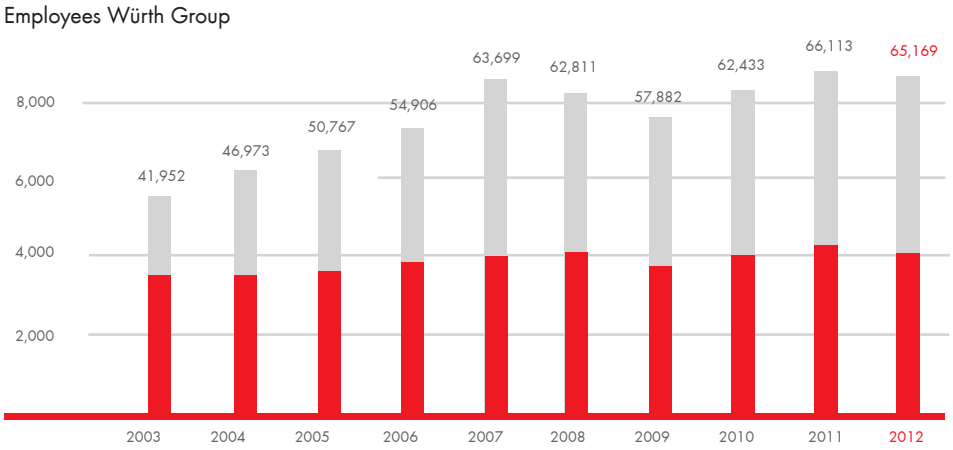
The Würth Group is widely dispersed all over the world having branches in the following countries:

Albania, Argentina, Armenia, Australia, Azerbaijan, Belarus, Belgium, Bosnia Herzegowina, Brazil, Bulgaria, Cambodia, Canada, Chile, China, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Dominican Republic, Ecuador, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iceland, India, Indonesia, Iran, Ireland, Israel, Italy, Japan, Jordan, Kazakhstan, Kenya, Kirghizia, Korea, Kosovo, Latvia, Lebanon, Lithuania, Macedonia, Malaysia, Malta, Martinique, Mexico, Moldavia, Mongolia, Montenegro, Namibia, The Netherlands, New Zealand, Norway, Panama, Peru, Philippines, Poland, Portugal, Romania, Russia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Taiwan, Thailand, Turkey, Ukraine, **United Arab Emirates**, Uruguay, USA, Vietnam.



Quality Buys Trust

"Quality beats price"; Würth's infamous slogan was its gateway towards the very top of the quality spectrum. Our first-class quality range is generously offered within our products as well as our services. As a result, our reward was lavish; Würth was able to gain the trust of more than 3 million customers all over the world.
A mathematical translation of this success is clear in the preliminary yearly financial declaration of the business year 2012; where the Würth Group generated total sales of EUR 9.98 billion. More or less, it is another way of stating that human beings and our unique
corporate philosophy are the driving forces of the venerable success enjoyed by the Würth Group.



Sales Force of the Company

As a wide-ranging company with variable focuses in the market, a massive sales force is required to ensure the wellbeing of the company's sales process. This is achieved through the vast efforts of more than 65,000 employees, almost half of which are permanently employed sales representatives who are in direct contact with the consumers offering them customized product solutions along with optimal services. This system of direct selling through our reliable sales force is indeed one of the exceptional keys to the Würth Group's success story.

Specialization of the Company

An International brand name, Würth Group has two division units:

- **The Würth Line Companies:** companies that specialize in the manufacturing and supplying of ASSEMBLY & FASTENING SYSTEMS supplying the trades, construction, and industry sectors.
- **The Allied Companies:** companies that operate as trade or production businesses in related business areas, as well as financial service providers.

Globally, The Würth Line Group comprises of a range of five operational business units:

Metal:

• Metal Subdivision:
Targets customers like metalworking and metal processing industries such as metal & steel fabricators, filters, and machine & vehicle manufacturers.
Concentrates on requirements of anchor & dowel systems, tools & electrical machines as well as DIN and standard parts for operating & processing variable metals.

• Installation Subdivision:
Targets customers like electricians, gas, heating and water installation firms, plumbers as well as air conditioning and ventilation system firms. Concentrates on rapid assembly systems, insulating materials for plumbing and cable laying-out systems to installation materials in the electrical area.

• Maintenance Subdivision
Targets customers like in-house repair shops of industrial enterprises, facility and installation maintenance of hotels, airports, sewage plants, clinics and
hospitals, theaters, recycling companies as well as garden and landscape specialists. Concentrates on complete product range for minor repairs and products for servicing, maintenance and care.

Automotive

• Car Subdivision
Targets customers like car garages, vehicle fleets, automotive refurbishers and dealers. Including authorized dealerships of car manufacturers and
independent workshops as well as special shops and service providers. Concentrates on consumables for repairs to chemical-technical products for
maintenance, servicing and bodywork, and tools for pneumatic and electrical machines.

• Cargo Subdivision
Targets customers like authorized dealers and independent workshops as well as specialized workshops and commercial vehicle service providers.
Concentrates on fastening, assembly and cleaning products required especially for the maintenance, repair and servicing of commercial vehicles in these segments.

Industry
Targets customers like specialized companies with a complete range of assembly and connecting materials for industrial production as well as maintenance and repair. In addition to the comprehensive standard range offered by these companies, their strength lies in customized, logistics concepts for supply and service.

Construction
Encompasses all sales units responsible for serving customers in the building and civil engineering industry and finishing trades. Concentrates on construction companies, roofers, plasterers, stucco masons, dry construction firms and direct supplies to building sites. Customized logistics solutions are also provided, such as building site containers filled with products.

Wood
Targets customers in the entire woodworking and wood processing trade, typically joiners/carpenters and window makers (wood and vinyl). Concentrates on product spectrum covers furniture fittings, the entire range of fastening materials and sealing technology as well as tools, machines, abrasives and chemical-technical products.









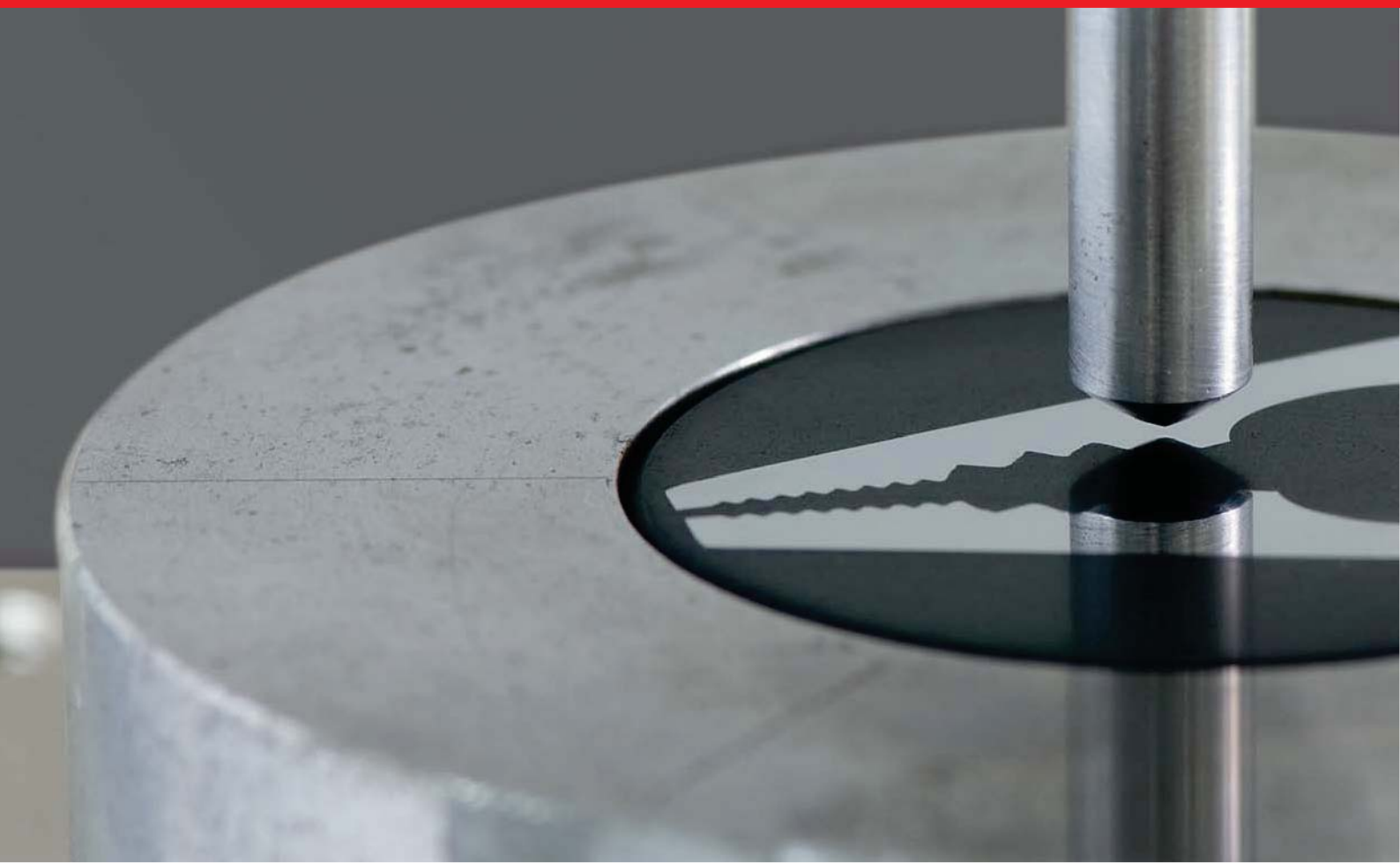




WÜRTH

WÜRTH IS QUALITY

Everywhere and every time



PREFACE

Ladies and Gentlemen, dear customers,

In practice, the quality of a product or service is measured by the degree to which customers' expectations are fulfilled.
Prof. Dr. h. c. mult. Reinhold Würth, Chairman of the Supervisory Board of the Würth Group's Family Trusts, goes one step further by setting this goal: "We have to inspire our customers in every way."

All our employees are well aware how important it is to reliably fulfill customers' wishes – your wishes and your orders – day in and day out.

This is why Würth's vision for quality is:

WÜRTH IS QUALITY
everywhere & every time

By providing quality products and services, we want to "take the load off your back", and we also want to give you the opportunity to increase your productivity and efficiency through innovative solutions.
This enables you to focus on your customers' needs, thereby increasing your success.

To assure you that the quality is there, we make no compromises, especially when it comes to selecting suppliers and when testing and approving Würth products. Würth strives for optimum quality in every market segment. Before we include products in our sales line, it is subjected to fatigue tests at our testing laboratory for days and sometimes even weeks under real-life conditions. In fact, most testing is carried out under tougher conditions that are seen in practice.

Würth operates a worldwide network of testing laboratories with first-rate equipment and a well-trained, motivated team of quality managers who act locally and globally to guarantee our quality standards.

Würth also works together with external testing laboratories where practicable to enable a third party to confirm the fulfillment of your specifications, national and international standards and Würth's own specifications.

Another focal point of our efforts in the area of quality management is the selection of the most suitable suppliers and their obligation to manufacture products in accordance with our quality standards.

The most environmentally friendly manufacturing of products and the use of appropriate materials are naturally of critical importance to us.

Of course we are also aware that the quality of the business processes of our company are crucial in determining your satisfaction. Our quality management systems are process oriented and the requirements are defined globally for Würth.

The central organ of the Würth Group in matters of quality is the Würth Quality Team (WQT). This team's job is to promote quality consciousness and quality, to point out improvement opportunities and necessities and to continuously support improvement processes. This work is supplemented within the Würth line at the so-called Quality Competence Center and, naturally, by a large number of teams at the individual companies.

In this brochure, we want to provide you with an overview of the instruments and people with whom we are working in the areas of
- Quality and environmental management (pages 3 – 5)
- Supplier qualification (page 6)
- Quality assurance (page 7)
- Testing laboratories in the Würth network (pages 8 – 19)

in order to fully live up to the "Würth is quality – Everywhere and every time" reputation.

Sincerely,



Dr.-Ing. Siegfried Beichter
Head Quality Management Würth Group

QUALITY MANAGEMENT WITH A SYSTEM

At the parent company of the Würth Group, Adolf Würth GmbH & Co. KG in Künzelsau, we have held an awareness for the demands, questions and problems of our customers as a focal point of our quality philosophy for a long time.

This is why, in 1993, we decided to have our quality-management system certified in accordance with DIN EN ISO 9001 by an external institution, the TÜV Süd certification agency. Using DIN EN ISO 14001, we are forming a process-oriented integrated management system which paves the way for continual improvement of our services.

Important elements of this system include determining customer satisfaction, evaluating effectiveness by the company management, continual improvement of the processes using internal audits, ensuring product quality through systematic and consistent testing, fair evaluation of suppliers, efficient complaint processing for monitoring of our products on the market and our own initiative for continual improvement of work routines to increase customer satisfaction.

The performance of this entire system is tested through monitoring audits carried out annually by TÜV Süd and re-certification audits by independent experts carried out every 3 years. At the last re-certification audit in November of 2010, we verified the conformity of our system with DIN EN ISO 9001:2008. This certification attests to our exceptional customer orientation and very keen quality consciousness.

Our distinct customer orientation was rewarded eventually with the German Customer Champion Award 2010.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

WÜRTH

Adolf Würth GmbH & Co. KG
Reinhold-Würth Str. 12-17
D-74653 Künzelsau

has established and applies
a Quality Management System for

Development and sales of fasteners and storage systems.
Sales of standard parts, chemical products, plugs, fittings,
electric and power tools, personally work protection,
fire protection systems, building products,
vehicle storage systems.

An audit was performed, Report No. 70020920
Proof has been furnished that the requirements
according to

ISO 9001:2008

are fulfilled. The certificate is valid until 2013-11-05
Certificate Registration No. 12 100 23791 TMS

Munich, 2010-11-18

QMS-TGA-ZM-07-02

TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Ridlerstraße 65 • 80339 München • Germany TÜV®



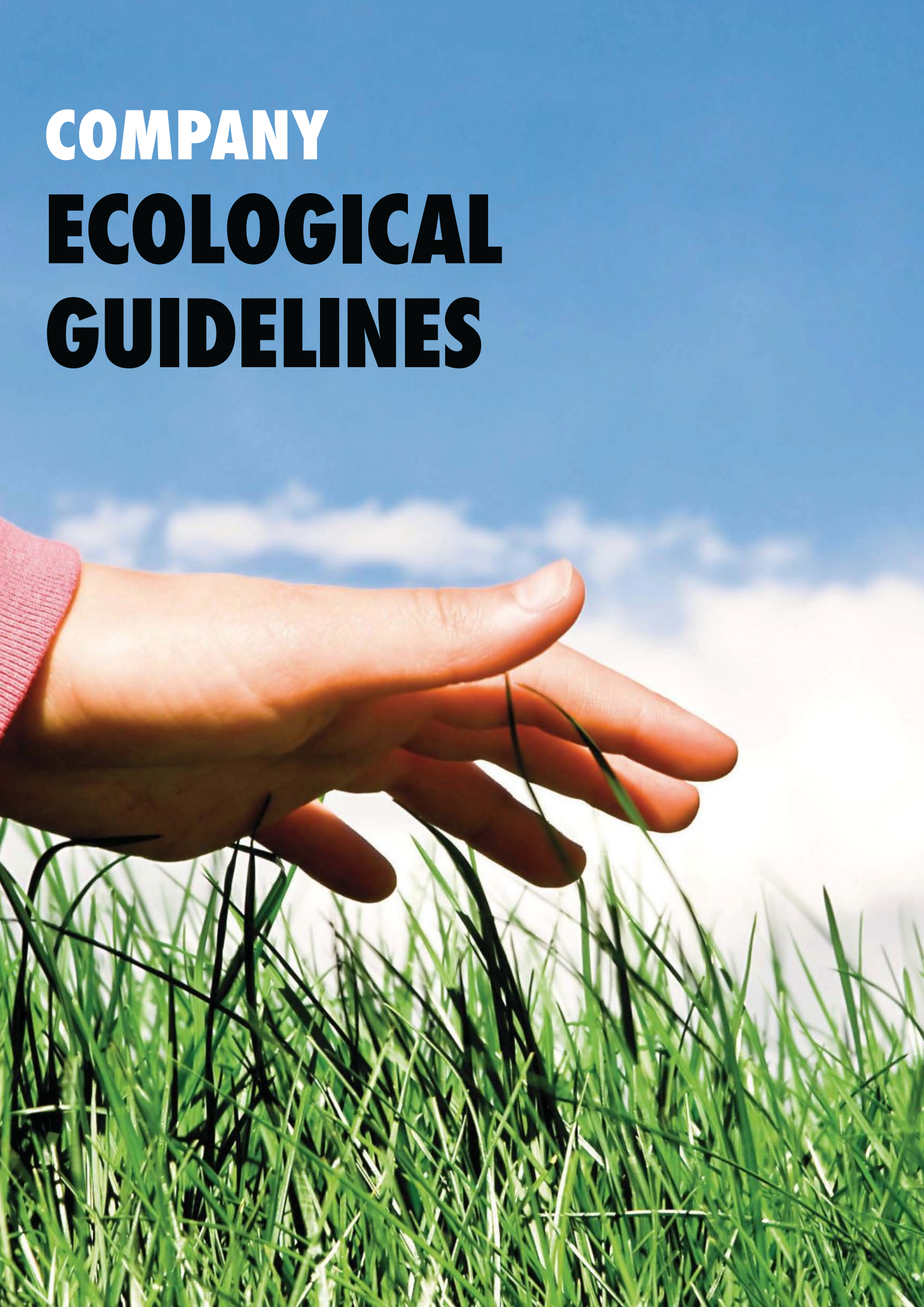


Dr.-Ing. Siegfried Beichter
Quality Management Würth Group

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COMPANY
ECOLOGICAL GUIDELINES



Company ecological guidelines

Adolf Würth GmbH & Co. KG has integrated environmental protection into its company philosophy as a main pillar and has been certified in the area of environmental management in accordance with DIN EN ISO 14001 since 1996. The company philosophy includes a clear commitment to environmental protection which is expressed in the preamble as follows.

Adolf Würth GmbH & Co. KG strictly adheres to the law in all the states of Germany and is obligated to comply with the principles of the social market economy and the health of people and the environment. We also strive to continually improve our company's environmental protection practices.

Our commitment to environmental protection has yielded the following five company ecological guidelines:

- **Actively work to protect health and the environment in all areas** of our doing and to use this for standing out against competition.
- **Expansion of ecological Würth products and service strategies** with the goal of offering our customers the best health protection modern technology can offer.
- **Acceleration of the development of new ideas for the safety and health** of people and the environment.
- **Motivation of our employees to deal in an environmentally conscious way** at the workplace and privately through information and training.
- **When selecting our product ranges and suppliers,** we ensure that the manufacture, use and consumption of products cause as little harm to the environment as possible by using state-of-the-art technologies.

Environmentally responsible product portfolio

The ecologically minded product and service strategies of Adolf Würth GmbH & Co. KG (AW KG) benefit customers and protect the environment from additional pollution.

For its service to environmental protection, AW KG was recognized at the 1998 "Environment Award for Companies" ceremony in the state of Baden-Württemberg.

In 2009, AW KG received the environmental technology prize from the state of Baden-Württemberg in the "material efficiency" category for the VKP Trio Sealing Tape.

Ecological product lines and application solutions

- ECOLINE
- WÜRTH isi!! – Online hazardous material management
- REFILLO®MAT



Goals of environmental management

Protection of the environment has long been a constituent part of Adolf Würth GmbH & Co. KG and includes the following tasks:

- Specification and implementation of a location-based environmental policy, environmental program and environmental goals.
- Systematic and objective regular assessment of the performance of these instruments.
- Provision of information on internal environmental protection for the company, the public and especially for our customers.

Environmental challenges for the future

- Environmentally minded product range creation
- Minimization of environmental risks
- Waste avoidance
- Responsible handling of natural resources



Bianca Gilsdorf
Environment management

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TECHNICAL
SUPPLIER QUALIFICATION

Würth seeks out the best suppliers in the world!

Würth's high demand for quality is placed at the very beginning of our supply chain with our global partners. In addition to process and product quality, the factors of delivery dependability, the environment and social aspects are "on the test rig". Trained auditors with highly comprehensive knowledge about the processes involved in creating new products and services test these products on site. Along with our quantitative and qualitative growth, supplier development activities are continuously being expanded and further developed according to the expectations of our customers.

To ensure an optimum audit process, we have at our disposal a host of customized tools for audits ranging from short half-day audits to supplier-development audits to comprehensive, multi-day audits. These tools are standardized methodically at the largest companies, which means that the results can be compared with and applied at other locations. We offer our knowledge at multi-day lectures and workshops at the Würth Academy.

The goals of supplier development are to ensure quality and environmental obligations, long-term cooperation with partners and reductions in nonconformity costs. What motivates us in supplier development are customers who enthusiastically use their product, purchased for the fairest price, and can rely on "their Würth".









Andreas Dierolf
Quality assurance
and supplier qualification

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Reinhold-Würth-Straße 12–17
74653 Künzelsau, Germany

Phone: +49 7940 15-2349
andreas.dierolf@wuerth.com

PERFORMANCE
OF QUALITY ASSURANCE

Quality beats price – quality assurance at Würth

To assure the customer that the quality is 100% there, we make no compromises when it comes to selecting suppliers and when testing and approving Würth products. Würth demands the best possible product quality in each respective market in order to meet all our customers' demands. They are the ones who decide whether or not a product is good.

Engineers, technicians and masters of their craft work on the following tasks for quality assurance:

- Initial sample testing
- Incoming goods inspection
- Complaint processing
- New product testing



Incoming products are subjected to an incoming goods inspection in accordance with the random sample plan. This is oriented toward DIN ISO 3269 and forms the basis for the scope of the random sample based on the delivery quantity.

The inspections are checked as per specifications of the standard and internal inspection instructions from independent professionals. All inspection equipment used is regularly calibrated.

New products are subjected to special requirement profiles by the quality assurance personnel. If the inspection yields positive results, approval is granted by quality assurance.

An important component of our success is the internal development of innovative products. Here, quality assurance works very closely with the product management and development departments and accompanies development projects through practice-oriented tests and determination of product requirements from the get-go.

The customer is an important part of our continual product-improvement process. All customer complaints are evaluated on a weekly basis. The quality assurance team responds immediately to increases in key figures so that solutions to possible problems can be developed early on.
Typical measures include inventory checks, supplier development, product optimization, 8D reports and the avoidance of usage errors through improved product information while taking the information gleaned from customers into account.



THE LARGEST TESTING LABORATORIES OF THE WÜRTH LINE



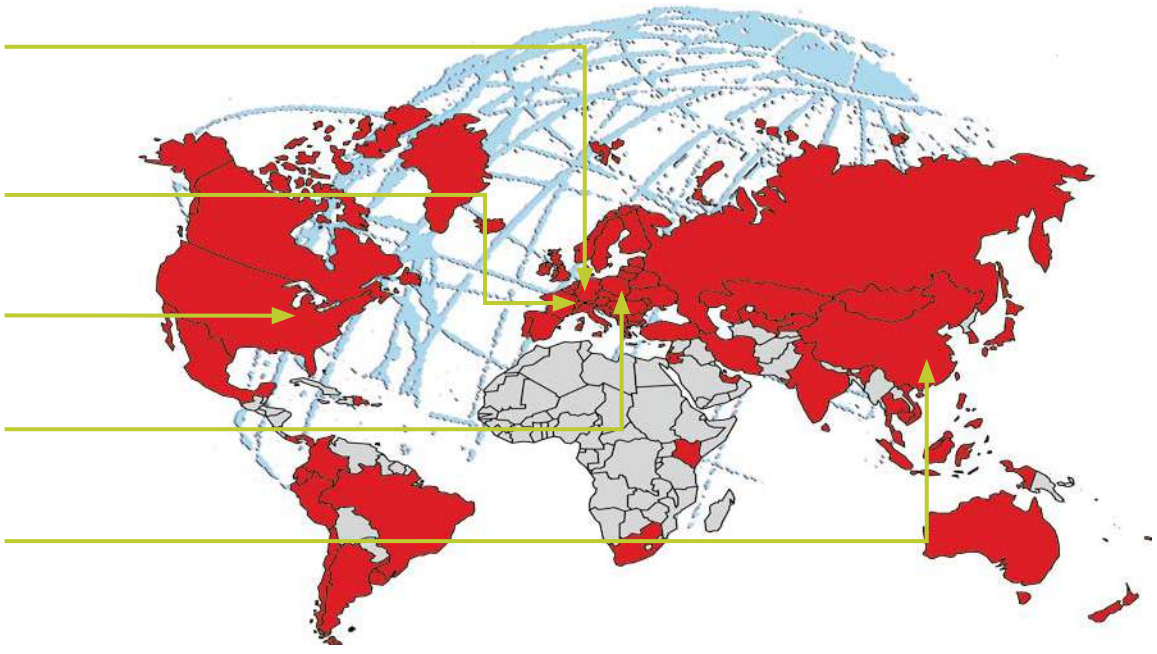
Germany
Künzelsau-Gaisbach,
Bad Mergentheim

Switzerland
Chur

US
Indianapolis

Slovakia
Bratislava

China
Shanghai



= Würth companies worldwide

ADOLF WÜRTH GMBH & CO. KG TEST LABORATORY
TESTING OPTIONS (EXCERPT)

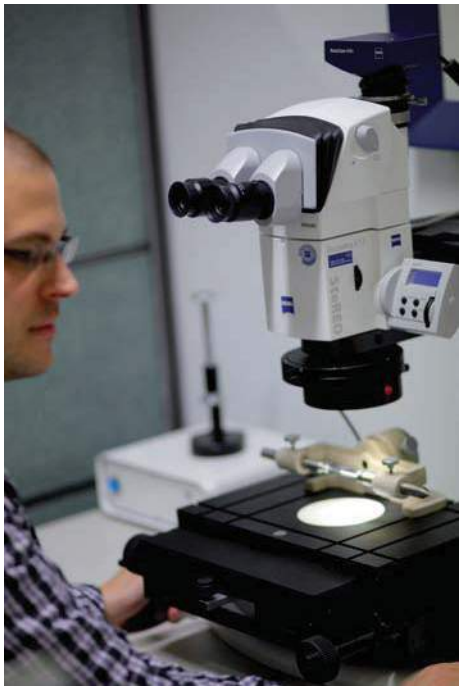


Tension testing machine
- Tensile test/compression test of components
- Strength testing of bolts and nuts





Screw-in test (right)
Internal development:
Measurement of the screw-in times of non-self-drilling and self-drilling screws





Vickers hardness tester (right)
Hardness test in accordance with DIN EN ISO 6507
- Determination of edge and core hardness
- Hardness progression curves

Measuring microscope (left)
Contact-less measurement of geometries







Robot test rig

a) Grinding
b) Cutting
c) Hammer drilling

a) Grinding test

- Grinding, flap and fiber disks
- Endurance test
- Material removal/ loss of material on disk
- Time/performance recording

b) Cutting disk test

- Cutting disks from 115 – 230 mm
- Number of seperating cuts/ loss of material on disk

c) Hammer drilling test

- SDS plus, SDS max
- Endurance test
- Drilling time, number of drill holes



Infrared spectroscope
Measuring of product specific spectra
(finger print)





Spark emission spectrometer (left)
Determination of steel composition

Weather simulation cabinet (right)
Accelerated outdoor weather simulation
in accordance with DIN EN ISO 4892-2



Salt-spray chamber

- Salt-spray test in accordance with DIN EN ISO 9227
- Condensate test in accordance with DIN EN ISO 6270-2
- A wide variety of environmental simulations



Rheometer
Determination of viscosity, flow characteristics of liquids and pasty products



Machine test rig
- Magnetic powder eddy current brake for high torques and high speeds
- Service life testing of machine batteries
- Testing of machine characteristics

Not shown

Occupational safety
- Martindale abrasion test for gloves
- Cut protection test
- Penetration test

Fall testing
- Cardboard
- Shipping boxes
- Hand tools

Cardboard testing
- Box Cardboard Tester (BCT)
- Edge Crush Test (ECT)

Battery testing
- Types: micro (AAA), mignon (AA), baby, mono, 9-Volt block, button cells
- Discharge time and discharge cycles for various load cases, e.g. flash, camera
- Service-life test for rechargeable batteries

Precision measuring system
- 2D shadow measuring system
- Automatic measurement of screw dimensions

Plier testing
Cut test for sheet-metal shears and VDE pliers

Service life test for flashlights

... and lots more

SAMPLE OF SERVICES FROM ADOLF WÜRTH GMBH & CO. KG AT A GLANCE

Dear Customer,
We would be happy to perform testing at your behest. This list is intended to provide you with a small overview of the testing possibilities offered at our testing laboratory. Should you be interested in our offer, we would be happy to advise you. Please contact your sales rep or the contact partner of the accredited Würth testing laboratory.

Tensile test
- Tensile testing on whole and machined test pieces DIN EN ISO 898-1*
- Force test for nuts DIN EN 20898-2*
- Measurement of breaking strength and tear elongation of adhesive tapes DIN EN 14410
- Determination of the tensile shearing strength of high-strength overlapping adhesions DIN EN 1465
- Determination of adhesive strength of adhesive tapes DIN EN 1939
- Determination of tear strength, tensile strength, tear elongation and tension values of rubber/elastomere DIN 53504

Hardness testing
- Surface and core hardness, hardness profiles
- HRC/HRB Brinell
- HV 0.3/1/5/10 DIN EN ISO 6507*
- Decarbonization and carbonization test DIN EN 898-1*
- Edge decarbonization DIN EN 898-5*

Torque
Determination of torques up to 5,000 Nm

Coating thickness test
Measurement of metallic coverings using x-ray fluorescence process*

RoHS screening
Non-destructive testing using x-ray fluorescence process

Dimension testing
- Thread testing, length measurement, geometry*
- Measuring microscope*
- 2D shadow measuring unit

Material analysis
- OES spark emission analysis for high- and low-alloy steels*
- Infrared spectral analysis FT-IR

Environment simulation
- Accelerated outdoor weathering DIN EN 4892-2
- Environmental test DIN EN 60068-8-52
- Corrosion testing in artificial atmosphere – Salt-spray test DIN EN ISO 9227*
- Climate tests -40°C to 180°C at 10 – 98% rel. humidity
- High tempering up to 650°C

Surface testing
- Surface roughness
- Measurement of colors in CIELAB color space
- Visual assessment

Component test
Depending on the customer's requirements, we adjust to their specific equipment and determine the material properties required by architects or stress analysts, for example.

Residual field intensity
Measurement of the field strength e.g. of screws

Fall testing
Fall testing, e.g. of cases, packages DIN EN 22248

Cardboard testing
Measurement with box carton testers up to 30 kN DIN EN ISO 12048
Edge crush resistance 5 kN DIN EN ISO 3037

Battery testing
Capacity, discharging properties and charging properties, from button cells to monocells

Lamp testing
Measurement of the light spectrum and lumens of light bulbs, LEDs and energy-saving lamps

Protective equipment
- Martindale abrasion test
- Cut protection test
- Penetration test

*Testing possible at accredited testing laboratory (DIN EN ISO/IEC 17025)

WÜRTH INTERNATIONAL AG IN CHUR

Würth International AG developed during 50 years into a company with more than 400 employees. Today, central purchasing for the Würth Group is one of the most important mainstays of Würth International AG. In the mid-1990s, central purchasing branches were founded in America and Asia. This enabled Würth International AG to meet its customers' needs even better.

The logistics center in Landquart was brought to life almost at the same time. This facility makes it possible to supply customers quickly and reliably. Our subsidiary in Bratislava (Slovakia) also provides a weighing service for the entire Würth Group. The testing laboratories of Würth central purchasing are located in Switzerland (Landquart), Slovakia (Bratislava) and China (Shanghai).



TESTING LABORATORY IN LANDQUART (SWITZERLAND)

From the very beginning, professionally competent and reliable quality assurance was ensured for the inspection of incoming goods at the logistics center of Würth International AG in Landquart. In addition to the incoming goods inspection, the sampling of new products and complaint processing are some of the main tasks handled by the central purchasing quality assurance personnel.

With the construction of the new warehouse in 2002 and complete redesigning of the testing laboratory in 2011, the laboratory was outfitted with a modern and targeted infrastructure.

In addition to the classic mechanical tests, the testing laboratory also became specialized in the examination of chemical products. Some of the most important testing devices include a 20 kN tension testing machine, a measuring microscope which can record 3D models, various hardness testers (Rockwell, Vickers, Shore), a 2D measuring station, a box column drill for service-life and tool tests, simple breakage torque tests, an x-ray for material analysis of metals and coating measurements, a salt-spray chamber for corrosion-protection tests, an infrared spectrometer for testing chemical substances, a climate cabinet, a rheometer for viscosity measurement and other analytical testing possibilities for the determination of poisonous substances, such as PAKs and chrome 6.







Manuel Hallauer
Quality assurance

Würth International AG
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7302 LANDQUART, SWITZERLAND

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Fax: +41 81 558 1775
manuel.hallauer@lagerhaus-landquart.ch

TESTING LABORATORY IN BRATISLAVA (SLOVAKIA)

Würth International Trading s.r.o. in Bratislava is the Würth Group's competent organization for DIN and standard parts.

In addition to trading activities, our colleagues in Bratislava handle a host of logistic services for the Würth Group companies.

Thanks to the use of state-of-the-art equipment and trained personnel, we are able to satisfy the demand for high quality by customers.
All requirements for initial samples and new product and standard testing are fulfilled at the laboratory in Bratislava.



Norbert Cillik
Quality assurance

Würth International Trading s.r.o.
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83107 BRATISLAVA 36
SLOVAKIA

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Fax: +41 81558 1955
norbert.cillik@wurth-int.com





TESTING LABORATORY IN SHANGHAI (CHINA)

Initial samples from Asian suppliers, in particular, are tested at the testing laboratory in Shanghai. Samples are taken from each delivery and tested to determine whether they meet our high quality standards.

The very well-trained personnel and the laboratory, which is equipped with all the important testing devices (e.g. a tension testing machine, a coating thickness measuring device, a torque test rig and other testing devices) ensures high quality, including that of imports from Asia. This ensures that only faultless products are shipped.



Steven Xu
Quality assurance

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(Shanghai) Co. Ltd.
Capital of Leaders – Building 9
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201203 SHANGHAI – P.R. CHINA

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Fax: +86 21 5856 9995
steven.xu@wurth-international.com.cn





WÜRTH INDUSTRIE SERVICE GMBH & CO. KG

Würth Industrie Service GmbH & Co. KG was founded on 1/1/99 as a spin-off of the industry division of Adolf Würth GmbH & Co. KG in Bad Mergentheim.

In the area of quality assurance, a well-equipped testing laboratory is available. Both the equipment and personnel of this laboratory are continually invested in. All the required geometric measurement possibilities required for our products, our own means for metallography and a broad spectrum of testing devices are available, for example:

- Hardness tests for metals and plastic
- Small-load hardness test
- Torque test rigs
- Pulling test rig for dimensions up to M80
- Tension testing machine
- X-ray fluorescence spectroscope
- Surface-roughness measuring device
- Measuring microscope
- 3D-coordinate measuring machine
- Contour measuring device
- Optical rotation measurement system
- Impact test bending facility





Optical coordinate measuring machine (3D): Optical 3-coordinate measurement, measurement precision down to 3 µm and serial measurement possible. Contact-less measurement system for determining diameters, radii, angles etc.

Friction coefficient testing machine/torsion testing machine





Würth Gulf

Is part of The Würth Group. We are the supplier of Fasteners, Automotive Chemicals, Hand Tools & Electrical Supplies also Construction, Assembly Items, Sealants, Power Tools & Safety Solutions.
Established in 2000, Würth Gulf FZE is one of the leading suppliers in the Middle-East. Existing industrial companies and developing organizations alike can benefit from the uparalleled selection, quality and unbeatable service that is synonymous with the Würth brand.



OUR VISION

Becoming the number 1 in the eyes of
our customers as the best and most qualified sales team.

OUR MISSION

We love selling.
We inspire our customers.

OUR PRINCIPLES

We request and promote achievements.
The greater the success, the more freedom and liberty.
We are optimistic, dynamic and have powers of self-assertion.
We passionately fight for success.
We consistently pursue everything that has proven
to be successful, and we try out new things.
We strive for perfection in every area of our activities.
We assume responsibility for our actions, work in mutual
respect and appreciation and are straightforward and
predictable in everything we do.
The term we consider most important in dealing with each other is
"Thank You".

WE SERVE THE FOLLOWING MARKET SECTOR:

- Auto Workshops
- Construction Companies
- Industrial Companies
- Metal and Fabrication
- Maintenance and Repair Shops
- Oil and Gas Sector
- And all other Manufacturing Sectors.

OUR PRODUCT RANGE

- Automotive/Cargo Accessories and Spare Parts
- Chemical Technical Products
- Concrete Anchors and Fixings
- Construction Accessories
- Electrical
- Fasteners/Fittings
- Fire Protection Systems
- General Tools/Equipment
- Hand and Power Tools
- Lubricants and Degreasers
- Master ® Power Tools
- Material Processing
- Orsy® Assortments and Workshop Equipment
- Personal Protective Equipment (PPE)
- Sanitary
- Sealants and Adhesives
- Service and Systems
- Workshop/Garage Equipment



Over 3 million customers

Worldwide, there are over 400 Würth companies in more than 80 countries and more than 70,000 employees on its payroll. This guarantee our customers can rely on our high quality, excellent service and innovative products.

To each customer Würth allocates our Sales Consultant, who is strongly focused on the individual needs of the client. We have adopted this attitude to benefit you, the customer. Our daily commitment helps us to find new approaches so that we always improve. We aim to supply every customer with every article at any time in any place. We therefore have developed modular systems and logistics tailored to the individual needs of the customers. In October 2009, we won the German Logistics Award for this concept.

Our philosophy

We owe it to Prof.Reinhold Würth that the Würth Group has a clear business orientation: It is marked by a strong brand policy, future-oriented product strategy, closeness to the customer, clear quality offensive, thinking in terms of visions and not least by a strong corporate culture. Bettina Würth, Prof.Reinhold Würth's daughter and Chairwoman of the Advisory Board together with the members of the Central Managing Board see to it that these values are filled with life and developed further.

WÜRTH ENGINEERING HUB

ENGINEERING SERVICES & SUPPORT



In person

Würth has local field engineering support across the region. Our team of highly trained field engineers, led by Dr. Jochen Buhler, offer support to local design professionals and contractors with application questions, engineering support, onsite testing and training. Our field engineers can provide engineering and architectural assistance when specifying Würth products at your office or on your project site.

Contact us on the phone or by email

Our office-based and fully qualified engineers can assist you with any immediate need with your design and specification.

Please contact our Technical Advisory Service at engineeringhub@wurth.ae or +971 (0) 4 8809 991



2- Trade License

حكومة دبي
GOVERNMENT OF DUBAI

DUBAI
للاقتصاد والسياحة
Economy and Tourism

رخصة تجارية
Commercial License

License Details / تفاصيل الرخصة

License No.	572033	رقم الرخصة	
Company Name	WURTH GULF (L L C)	اسم الشركة	وورث جلف (شركة ذات مسئولية محدودة)
Business Name	WURTH GULF (L L C)	الاسم التجاري	وورث جلف (ش ذ م م)
License Category	Dep. of Economic Development	فئة الرخصة	دائرة التنمية الاقتصادية
Legal Type	Limited Liability Company - Single Owner(LLC - SO)	الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م)
Expiry Date	05/08/2026	تاريخ الإنتهاء	Issue Date 06/08/2005 تاريخ الإصدار
D&B D-U-N-S ® N	561529749	الرقم العالمى	Main License No. 572033 رقم الرخصة الام
Register No.	1778252	رقم السجل التجارى	DCCI No. 99967 عضوية الغرفة

License Members / الاطراف

رقم الشخص/No.	الإسم / Name	الجنسية / Nationality	الصفة / Role	الحصص / Share
1162256	وورث جلف م م ح WURTH GULF FZE	United Arab Emirates / الامارات	Shares Owner / مالك حصص	100.00%
1070435	جيان لوس مارسيل تيسمار JEAN LUC MARCEL THESMAR	فرنسا / France	Manager / مدير	
1162255	موكانى توفيق احمد موكانى اقبال احمد MOOKANE THAUFEEQUE AHMED MOOKANE IQBAL AHMED	الهند / India	Manager / مدير	

License Activities / أنشطة الرخصة

النشاط	الحالة	Status	Activity
تجارة المواد المقاومة والمانعة لإنتشار الحريق	فعال	Active	Fire Resistant & Retardant Materials Trading
تجارة عامة	فعال	Active	General Trading

Print Date 07/08/2025 20:09 تاريخ الطباعة

Receipt No. رقم الإيصال

الإمـــارات
THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجي مسح رمزالاستجابة السريعة

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العنوان / Address

صندوق بريد	17036	P.O. Box	
رقم القطعة	613-767	Parcel ID	
البريد الإلكتروني	mohamed.elsadig@wurth.ae	Email	

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

تليفون	971-4-8834229	Phone No	
فاكس	971-4-8834303	Fax No	
هاتف متحرك	971-50-7098917	Mobile No	

الملاحظات / Remarks

نقل الموقع بتاريخ 5/5/2015

رقم الإيصال Receipt No.

تاريخ الطباعة 20:09 07/08/2025 Print Date

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حكومة دبي
GOVERNMENT OF DUBAI

دبي للاقتصاد والسياحة
Economy and Tourism

شهادة شهر قيد شركة فى السجل التجارى
Commercial Register

تفاصيل القيد / Register Details

رقم القيد	1778252	Register No.	
الاسم التجاري	وورث جلف (شركة ذات مسئولية محدودة)		
الشكل القانونى	شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م.)		
تاريخ الإصدار	03/08/2005	Reg. Date	
الرقم العالمي	561529749		

Main Lice. Nr	572033	رقم الرخصة الأم	
Business Name	WURTH GULF (L L C)		
Legal Type	Limited Liability Company - Single Owner(LLC - SO)		
Expiry Date	05/08/2026	تاريخ الإنتهاء	
D&B D-U-N-S ® No.			

تفاصيل راس المال / Capital Details

الإسمى	300,000.00	Nominated	
المدفوع	300,000	Paid	
عدد الأسهم	300	No. of Shares	
العملة	درهم إماراتي	Currency	UAE Dirhams

عنوان الرخصة / License Address

عنوان السجل التجاري / Commerce Address

محل 02 ملك علي احمد خلفان - بردبي - راس الخور الصناعية الثانية

أنشطة السجل / Register Activities

تجارة المواد المقاومة والمانعة لإنتشار الحريق	Fire Resistant & Retardant Materials Trading
تجارة عامة	General Trading

Print Date	07/08/2025	20:09	تاريخ الطباعة	Receipt No.	رقم الإيصال

الإمارات
THE EMIRATES

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الفروع / Branches

رقم الرخصة License No	الاسم التجارى Business Name
961444	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1007865	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)
1218999	وورث جلف (ش ذ م م) (فرع) WURTH GULF (L L C) (BRANCH)

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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Receipt الرصيد

Receipt Date	**07/08/2025**	**تاريخ الإيصال**	**Receipt No**	**16705333**	**رقم الإيصال**
Business Name	WURTH GULF (L L C)			ورث جلف)ش ذ م م(	**اسم الشخص**
Procedure	Renew License,Modify Location			Renew License,Modify Location	**نوع الاجراء**
P.V.Nr.	**24404931**	**رقم إذن الدفع**	**License Nr.**	**572033**	**رقم الرخصه**
Payment Mode	eGovernment Online Payment			eGovernment Online Payment	**كيفية الدفع**
Amount in Words	Twenty One Thousand Eight Hundred and Fifteen Dirhams			واحد وعشرون الفا وثمانمئة وخمسة عشر درهما	**القيمة بالحروف**

Print Date 07/08/2025 20:09 **تاريخ الطباعة** **Receipt No.** **رقم الإيصال**

الإمارات
THE EMIRATES

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GOVERNMENT OF DUBAI

دبي
للاقتصاد والسياحة
Economy and Tourism

عزيزي التاجر،،

يرجى اخذ التعليمات التالية بعين الاعتبار:

1. عدم القيام بتغيير موقع الترخيص والانتقال الى موقع اخر دون الحصول على موافقة الدائرة.

2. ضرورة ان يكون الاسم التجاري المدون على اللافتة مطابق للاسم المدون بالرخصة مع ضرورة كتابته بحجم واحد.

الحرص على أن تكون اللافتة باللغتين العربية والانجليزية و بالشكل التالي:

- يكتب الاسم التجاري باللغة العربية في يمين اللافتة وباللغة الإنجليزية تجاه اليسار.

- يكتب الاسم التجاري باللغة العربية بنفس حجم الاسم المكتوب باللغة الانجليزية

- يكتب الاسم التجاري باللغة العربية أعلى الاسم المكتوب باللغة الانجليزية

3. الحرص على استخراج تصريح للافتات الاضافيه والعلامات التجارية على اللافتة.

4. عدم تظليل الواجهة أكثر من 50%

5. عدم العمل لساعات اضافية بعد الساعة 12:00 بعد منتصف الليل الا بعد استخراج تصريح.

6. عدم اجراء التنزيلات او التصفيات او العروض الخاصه بدون تصريح.

7. عدم اجراء اي تعديل او تغيير بيانات الترخيص الا بعد الرجوع للدائرة.

8. الالتزام بكتابة الاسعار على السلع والبضائع.

9. طباعة ووضع بطاقة حماية المستهلك (كن على حق واعرف حقوقك كمستهلك) في مكان بارز من موقع الدائرة www.consumerrights.ae

10. للمستهلك الحق في الحصول على فاتورة الشراء.

11. الاعلان عن سياسة البيع للمستهلك عبر وسيلة اعلان مناسبة شاملة (لعملية الاسترجاع او الاستبدال او الاصلاح للسلع)

12. عدم الترويج عن منتج عن طريق المندوبين، أو الاتصال أو غير ذلك وعدم البيع بطريقة المناداه

13. استخراج تصريح لمستودعات التخزين الخاصة بالمنشأة المرخصة أو تصريح للمكاتب الإضافية أو الاكشاك.

14. يجب على المطاعم وضع قائمه الطعام باللغتين العربيه والانجليزيه.

15. يجب وضع واعتماد قائمة الاسعار الخاصة بالصالونات الرجالية والنسائية ووضعها في مكان بارز.

16. يجب ان تكون الاسعار المعلنه مشمولة القيمة المضافه 5%

17. يجب عرض الفاتورة بشكل تفصيلي موضحا فيها القيمه الاجماليه للسلع والخدمات وقيمة الضريبه المضافه.

18. عدم القيام بالترويج او البيع او العرض لأية بضائع مقلدة أو مغشوشة.

Dear Merchants,

Kindly take the following instruction into high consideration:

1. It is not allowed to change the location registered in the license to move to another address unless DET approval is obtained.
2. The business name on the signboard must conform to the name mentioned in t license and typed in one size.

The business name must be in both Arabic and English as follows:

- The business name in Arabic must be placed on the right hand side of the signboard whereas the English text on the left hand side.
- The Arabic text must be in same size of the English equivalent
- The Arabic business name must be placed above the English equivalent.

3. A commercial permit must be issued for additional signboards and for placing trademarks on the signboard.
4. Text must not occupy more than 50% of the signboard.
5. Shops operating hours must not exceed 12:00 am unless a permit is issued.
6. Discounts, sales or special offers must not be announces unless a permit is issu
7. It is not allowed to apply any amendments or change the license details unless approved by DET.
8. Prices must be placed on products and goods.
9. The Consumer Protection Card (Be Right and Know Your Consumer Rights) mu be typed and placed visibly above the DET website www.consumerrights.ae
10. Consumers have the right to receive a purchase receipt.
11. Announce the sale policy to consumer through suitable applicable channels (t clarify procedures for goods replacement, repair and refund).
12. It is not allowed to promote products through agents, telephone calls, or othe ways or yelling.
13. Permits must be issued for warehouses of licensed business or additional offi or kiosks.
14. Restaurants must place a menu in both Arabic and English languages.
15. Place an approved price list for services provided by ladies and gentlemen salons at a visible area.
16. The displayed price list should be inclusive of 5% VAT
17. Invoices must clearly reflect the total amount of the purchased goods, service and VAT.
18. Avoid promoting or selling or displaying any counterfeited goods.
19. To protect trade marks, it must be registered by the Ministry of Economy.
20. The Department of Economy & Tourism in Dubai has the right to suspend or

رقم الإيصال **Receipt No.** **تاريخ الطباعة** 20:09 07/08/2025 **Print Date**

الإمارات
THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/ اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجى مسح رمز الاستجابة السريعة
This is a certified e-document issued without signature by the department of Economy and Tourism .Kindly scan the QR Code to verify the certificate

شهادة تسجيل العضوية
Membership Certificate

License no.	572033	572033	رقم الرخصة
Membership no.	99967	99967	رقم العضوية
Registration no.	1778252	1778252	رقم السجل التجاري
Business Name	WURTH GULF (L L C)	وورث جلف (ش ذ م م)	الاسم التجاري
Legal Status	Limited Liability Company - Sing	شركة ذات مسؤولية محدودة - الشخص	الشكل القانوني
Activity	Fire Resistant & Retardant Materials Trading General Trading	تجارة المواد المقاومة والمانعة لإنتشار الحريق تجارة عامة	نوع النشاط
Member Since	06/08/2005	06/08/2005	تاريخ الإنتساب
Date of Issue	06/08/2005	06/08/2005	تاريخ الإصدار
Expiry Date	05/08/2026	05/08/2026	تاريخ الإنتهاء

Remarks

This certificate shall be invalid incase of any alteration without chamber's authorization

For online verification of this Certificate, please visit our website http://www.dubaichamber.ae/verify

الملاحظات

تعتبر هذه الشهادة لاغية في حال أي كشط أو تعديل عليها دون اعتماد ذلك من الغرفة

للتأكد من صحة بيانات الشهادة يرجى الرجوع إلى موقع الغرفة http://www.dubaichamber.ae/verify

غرفة تجارة وصناعة دبي
Dubai Chamber of Commerce & Industry

P.O. Box 1457 - Dubai, U.A.E. | Tel (Within UAE) 800 CHAMBER (800 2426237) | Tel (Outside UAE) (+971) 4 2280000 هاتف
Fax (+971) 4 2211646 فاكس | customercare@dubaichamber.ae | www.dubaichamber.ae

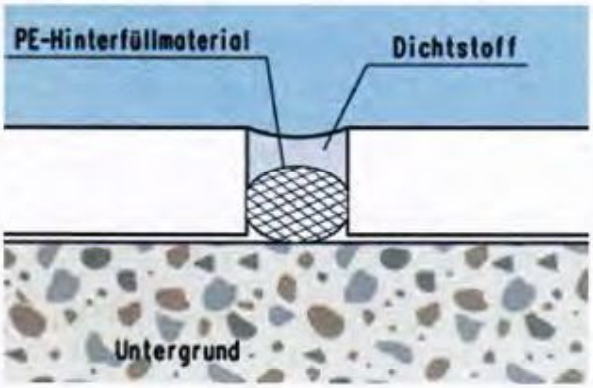
3- Method of statement

Processing:

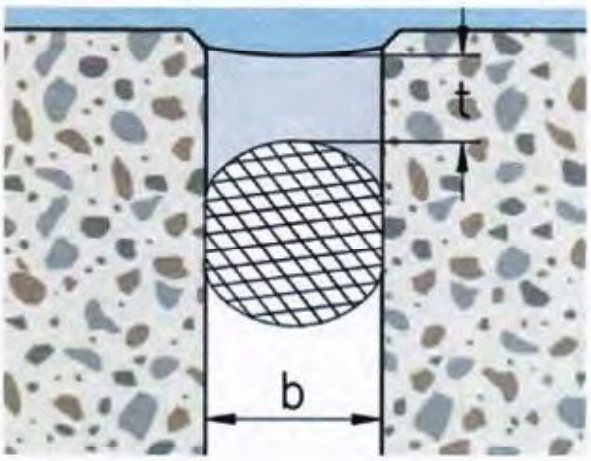
1. Cleaning of the substrate:
The surface must be clean, dry, stable and free of dust. Any possible residue from, e.g. oil, grease, rust or water must be removed prior to using the sealant.



2. Prevention of three-point adhesion:
When being processed, a sealant may only exhibit 2-edge adhesion. Every additional adhesion on a substrate may result in stress cracking if movement occurs, which will no longer guarantee the tightness of the joint. To prevent three-point adhesion, PE insert material should be inserted into the joint.



3. Joint dimensions:
The joint should be about half as deep as it is wide. With narrow joints, the depth, however, should be at least 6 mm. PE insert material should be used to limit the joint depth.



Ideal joint dimensions:

narrow joints b<12 mm: Joint depth t = 6 mm.
wide joints b>12 mm: Joint depth t =1/2 joint with b.
min. joint width b: 6mm.
max. joint width b: 20 mm.

Safety:

- During the curing process, gases are release these gases should not be inhaled for long periods in high concentration, therefore a good air circu lation should be maintain in working place.
- Avoid contact with eyes, in case of accident wash with plenty of water and seek medical assistance.
- Avoid contact with skin, in case of accident wash with plenty of water or water and soup, furthermore, if any Symptoms noticed like but limited to itching and irritating, seek medical assistance.
- Cured sealant is risk free to health.
- Keep away for children.
- For further information please check material safety data sheet.

Limitations and restrictions:

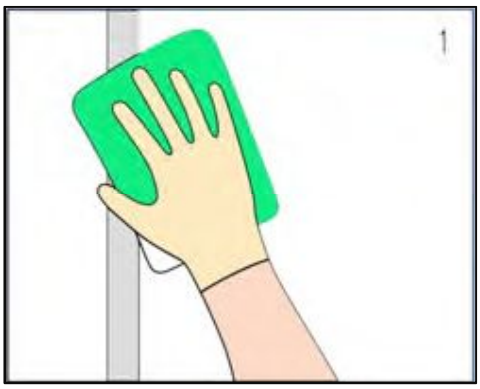
- Not recommended to be used for glass installation applications, double glazing and not to be used
  for structure bonding.
- Not recommended to be used in submerged Joints.
- Not recommended to be used as mirror adhesive.
- Not suitable for areas where food contact is possible.
- Bleeding can be happened on porous subtracts such as concrete , mable, granite or other natural stone.
- Non compatible materials such as but not limited to Coating materials (paints, varnish), natural rubber
  based materials (EPDM) or any material could bleed oil can lead to color changing and/or losing of adhesion. other hand material such as but limited to aggressive cleaning agents, gaseous emissions can change the appearance and the functionality of the sealant, therefore it is user responsibility to check the compatibility .

Warrantee and Responsibility:

As a respectful company, we have appointed all our efforts to present the information enclosed in the attached datasheet with a high level of accuracy. Nevertheless, as suppliers we have no hold no control of any conditions or methods the end user applies in usage of this product. Thus, the information enclosed in the attached datasheet can never be used as a replacement to the customer's tests that qualify this product to be of secure, efficient, and fully satisfactory usage for the end user. The instructions of application should not under any circumstances encourage any violation of rights. Warranty limited to meet the sales product specification on the time of delivery. In case the product does not meet the mentioned specifications, the only alleviation to this issue is the refund of purchase price or substitution of any product not meeting the specs.

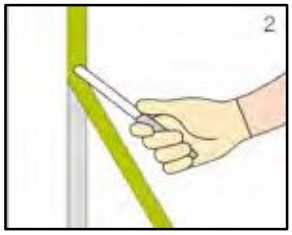
Preparation of joints and cleaning of work surfaces

Chips and cracks should be fixed, accumulated gravel and stones should be removed and cold joints should be warmed. Dirt can be removed using an air compressor or wiping with a cloth. Moisture, laitance and oil will prevent adhesion and cause interface separation and thus must be completely removed. Wipe smeared surfaces with a cloth using a solvent such as toluene or methyl ethyl ketone. Make absolutely certain that the joint surface is dry before moving onto the next step.



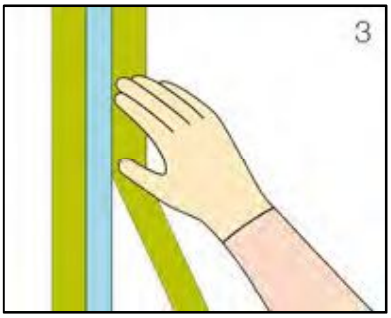
Insertion of back-up material

Back-up material is required to ensure that the joint is of the appropriate depth and as a bond breaker to prevent triangular adhesion of the sealant. This material is also used to eliminate internal stress and increase durability.

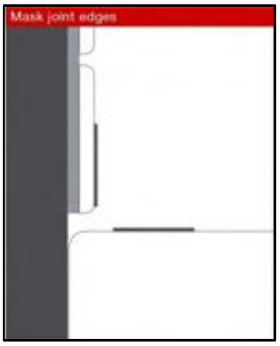


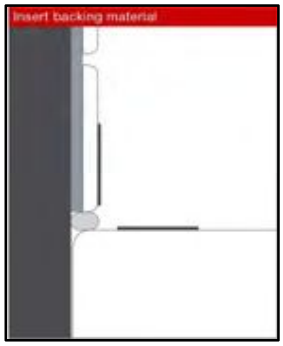
Application of masking tape

Apply masking tape to both sides of the joint to prevent the sealant from adhering to the area around the joint and to ensure a clean finish in the sealant-filled areas. Even pressure should be applied to the tape as it is affixed to prevent it from separating. Also be careful to make sure that the tape does not extend into the joint area.



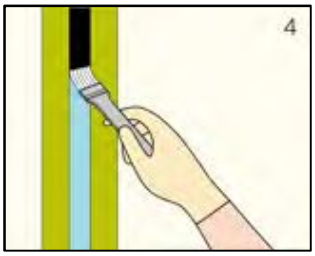






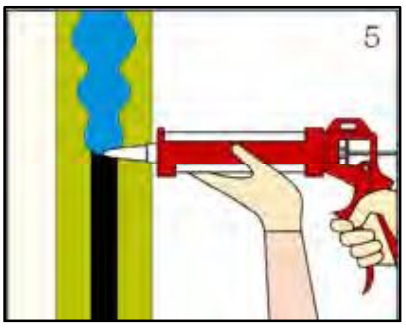
Primer application

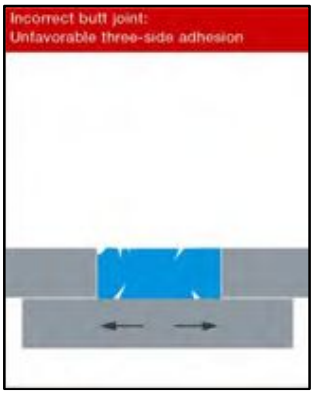
Primer is not required to be used with most of silicone base sealants, the primer is a liquid, uniformly apply it with a brush or a sprayer and let it dry for approximately 1 hour.

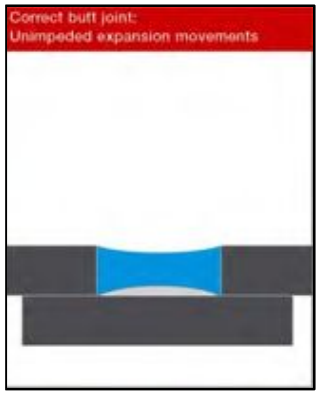


Filling

Cut the nozzle to the desired size at a 45° angle. Puncture the base of the nozzle inner seal and then insert the cartridge into the caulking gun.

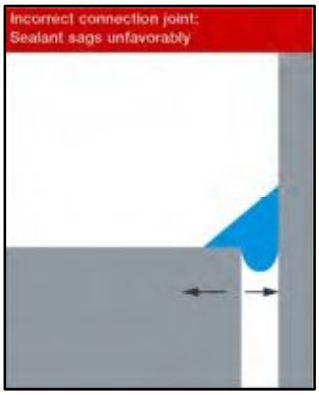






Filling

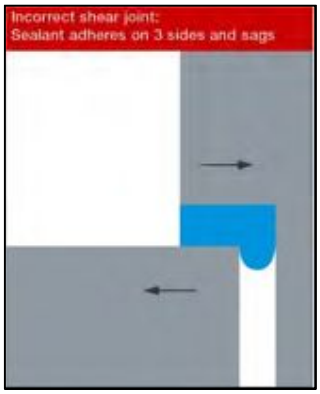
The lateral joint surfaces must satisfy structural, functional and processing demands. For optimum sealing, use the correct technique for each type of joint. Also keep to the processing guidelines for the sealant in use.





Connection Joints

Connection joints are formed by triangular chamfered edges. The two surfaces to be bonded meet at an edge. It is important that these surfaces do not meet deep within the joint and that the sealant cannot sag. You can avoid this by inserting PE backer rods into the tip of the triangular chamfer. Then you can make the joint.





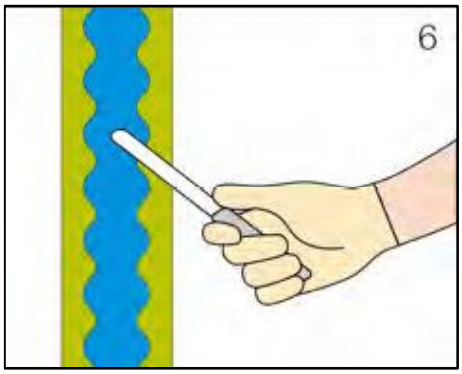
Shear Joints

The surfaces in shear joints move parallel to one another. This may cause three-sided adhesion of the sealant and cause it to sag deep into the joint. To achieve optimum joint sealing, insert PE rods as backing material before jointing. The joint thus stays in the correct shape and is sealed reliably, and the elements can move freely. There are many applications for the three types of joints mentioned above.

Gathered and prepared by Wurth Group. , March 2014

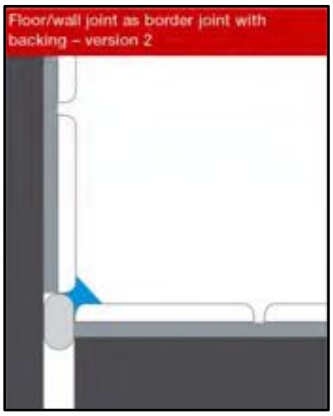
Tooling

Tooling must be done after filling the joints with sealant. This step ensures a clean finish by hermetically sealing the sealant to the joint surface and preventing surface irregularities. The push-up method is ideal for tooling because it also removes bubbles in the sealant.









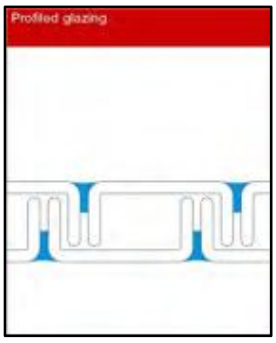
Correct Border Joints between the Floor and Wall

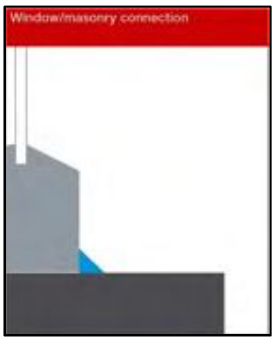
Joints between the floor and walls often undergo considerable movements due to construction subsidence or shrinkage of, for example, the screed. When designing this kind of joint, always use backing material to avoid three-sided adhesion. The structural design does not, however, always make this possible. Simple triangular joints are formed instead. In this case, be careful not to exceed the sealant's movement capability, otherwise adhesion losses may occur.

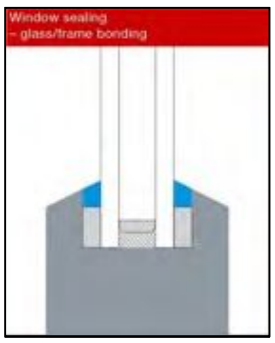
Correct Triangular Joint

Joints that undergo just slight movements can be designed as triangular joints. These include connection joints in vertical corners of washrooms and connection joints to washbasins and toilets.



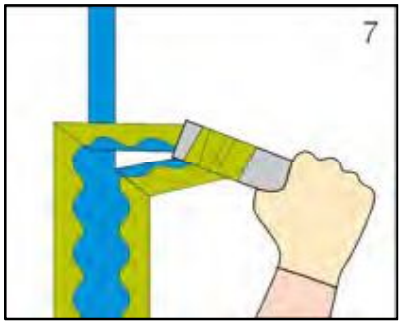






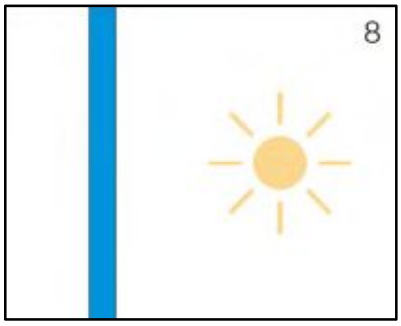
Removal of masking tape

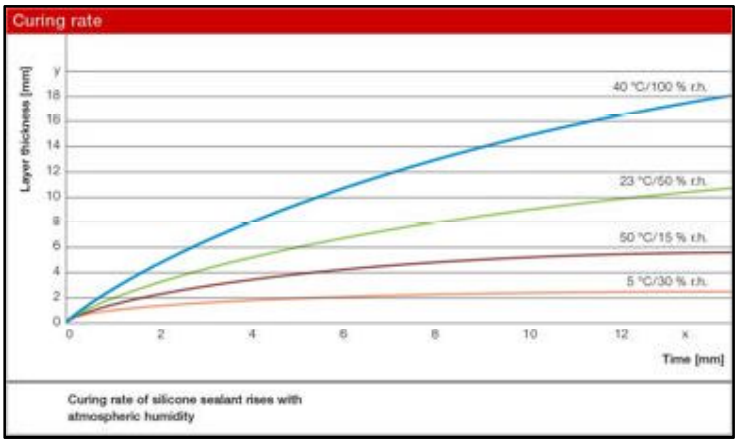
Once you have completed the tooling step, the masking tape should be removed quickly while it is still possible. An efficient way to remove masking tape is to wind it around a large-diameter bar-shaped object.



Curing

Once the above steps have been completed, the joint surfaces must be carefully cured until they have completely hardened.





Curing

WURTH single component silicone sealant is introduced as a paste, is non-slump, does not sag, and cures directly in the joint. Curing (drying) is triggered by atmospheric humidity. Initially an elastic skin is formed on the surface. Curing then spreads inwards until an elastic rubber is obtained. There are three different systems silicone sealant:

- Acidic systems release acetic acid upon curing

- Neutral systems release alcohol or oxime

- Aqueous systems release water

4- Scheduled of the materials

Schedule of Items for approval and area of application :

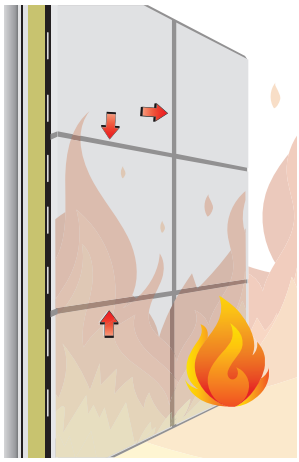
Art. No	Description	Area of application
0893301016	Weather Sealant Fire rated 600 ML	Weatherproof sealing/ Joint Sealant using for Aluminum & Glazing Works (Door & Windows), Glass/ Aluminum curtain wall, Louvers

Product Department
Wurth Gulf FZE



5- Technical Data Sheet

WEATHER SEALANT W-FR







UAE Civil Defence approval by

iBMB MPA TU BRAUNSCHWEIG

Art.No. 0893 301016
Contents: 600ml, Color Black

Applications:

WEATHER SEALANT FR exhibits excellent primer less adhesion to many non-porous siliceous materials, e.g. glass, tiles, ceramics, enamel, glazed tiles and clinker; metals, e.g. aluminum, steel, zinc or copper; impregnated, varnished or painted wood; and many plastics.
Users must carry out their own tests due to the great variety of substrates.
The adhesion can be improved in many cases by pretreatment of the substrates with a primer. If adhesion difficulties arise please contact our technical service.

Processing

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material such as dust, dirt, rust, oil and other contaminants. Non-porous substrates should be cleaned with a solvent and a clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth.

Safety notes

During vulcanization methanol is released. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary. Should unvulcanized silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water as irritation will otherwise be caused. Avoid prolonged contact of uncured sealant with the skin - use a dry cloth or paper to remove it. Keep out of reach of children.

Technical Data		
Typical general characteristics	**Inspection Method**	**Value**
Product data (uncured)		
Density at 20 °C	ISO 1183-1 A	1,5 g/cm³
Consistency	ISO 7390, profile U 20	non-sag
Extrusion rate - volume flow at 23 °C	150 ml/min	
Skin forming time at 23 °C / 50 % r.h.	25 min	
Product data (cured) After 4 weeks´storage at 23 °C / 50 % rh		
Tensile strength	ISO 8339	0,60 N/mm2
Elongation at break	ISO 8339	300 %
Modulus at 100 % elongation	ISO 8339	0,40 N/mm²
Hardness Shore A	ISO 868	25
Movement capability	ISO 11600	25 %
Tear strength	ISO 34, method C	4,0 N/mm

Product description

Weather Sealant FR is a one-part, neutral-curing silicone sealant for construction and glazing.
WEATHER SEALANT FR cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

Special features

- Fire Resistance Classification to BS EN 1366-4/1363-1 up to 240 minutes
- Fire resistance tests for linear joint seals
- Can be used for both Construction and Glazing Applications.
- Solvent-free
- Non-sag
- Ready gunnability at low (+ 5 °C) and high (+ 40°C) temperatures
- Flexible at low (-40 °C) and high temperatures (+150°C)
- Non-corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous cement

Application

Joint sealant for applications in the construction industry and in industrial areas where high standards are set in respect to systems fire resistance. Refer to Fire Resistance Certificate for more details.

Restrictions on use

It is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating materials (paints, varnishes and glazes) or organic plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant. Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, Wurth cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user shall conduct appropriate preliminary tests.
WEATHER SEALANT FR is not suitable for applications involving contact with natural stone, such as marble, granite, quartzite, as it can cause staining.
WEATHER SEALANT FR is not recommended for sealing of aquaria.

Storage

The ‚Best use before end' date of each batch is shown on the product label.
Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

6- Safety Data Sheet

SAFETY DATA SHEET

FIRE RESISTANT-WEATHER SEALANT-BLACK-600ML

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	25.09.2017	1992240-00001	Date of first issue: 25.09.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FPSEAL-ELA-(W-FR)-GREY-600ML

Product code : 0893 301016

Manufacturer or supplier's details

Company : Würth Gulf FZE
Jebel Ali Free Zone-South

Address : POBox 17036
Dubai

Telephone : 00971 4 880 9991

Emergency telephone number : Emergency telephone. Advisory office in case of poisoning +9714 8834229. Telephone number of the company in case of emergencies +97150 5646023

E-mail address : prodsafe@wuerth.com

Telefax : 00971 4 880 9255

Recommended use of the chemical and restrictions on use

Recommended use : Sealant

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
trimethoxyvinylsilane	2768-02-7	>= 1 - < 5
3-(2-aminoethylamino) propyltrimethoxysilane	1760-24-3	>= 1 - < 2.5
1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	26115-70-8	>= 1 - < 5
4-((Triethoxysilyl)methyl)morpholine	21743-27-1	>= 1 - < 2.5

4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire-fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Silicon oxides Metal oxides Formaldehyde Nitrogen oxides (NOx)
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep away from water. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH

Engineering measures : Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : 0.3 mm

Material : Nitrile rubber
Break through time : 10 - 30 min
Glove thickness : 0.4 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Safety glasses

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : white

Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	> 400 °C
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	1.40 (25 °C)
Density	:	1.40 g/cm3 (25 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle size	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon contact with water or humid air.
Conditions to avoid	:	Exposure to moisture
Incompatible materials	:	Oxidizing agents Water

Hazardous decomposition products

Contact with water or humid air	:	Methanol Ethanol

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

trimethoxyvinylsilane:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 16.8 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

3-(2-aminoethylamino) propyltrimethoxysilane:

Acute oral toxicity	:	LD50 (Rat): 2,295 mg/kg Method: OPPTS 870.1100

Acute inhalation toxicity : LC50 (Rat): 1.49 - 2.44 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OPPTS 870.1200
Assessment: The substance or mixture has no acute dermal toxicity

1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Acute oral toxicity : LD50 (Rat, female): 1,651 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

4-((Triethoxysilyl)methyl)morpholine:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit
Result: No skin irritation
Remarks: Based on data from similar materials

Components:

trimethoxyvinylsilane:

Species: Rabbit
Result: No skin irritation

3-(2-aminoethylamino) propyltrimethoxysilane:

Species: Rabbit
Result: Mild skin irritation

1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Species: Rabbit
Result: No skin irritation

4-((Triethoxysilyl)methyl)morpholine:

Species: Rabbit
Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

Components:

trimethoxyvinylsilane:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

3-(2-aminoethylamino) propyltrimethoxysilane:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irreversible effects on the eye

1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Species: Rabbit
Result: No eye irritation

4-((Triethoxysilyl)methyl)morpholine:

Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Not a skin sensitizer.

Components:

trimethoxyvinylsilane:

Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig

Method: OECD Test Guideline 406
Result: negative

3-(2-aminoethylamino) propyltrimethoxysilane:

Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

4-((Triethoxysilyl)methyl)morpholine:

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

trimethoxyvinylsilane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

3-(2-aminoethylamino) propyltrimethoxysilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

4-((Triethoxysilyl)methyl)morpholine:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

trimethoxyvinylsilane:

Effects on fertility	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative

3-(2-aminoethylamino) propyltrimethoxysilane:

Effects on fertility	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Oral Result: negative
Effects on foetal development	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Oral Result: negative

4-((Triethoxysilyl)methyl)morpholine:

Effects on fertility	:	Test Type: Fertility Species: Rat Application Route: Ingestion Result: negative

Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

trimethoxyvinylsilane:

Exposure routes: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

trimethoxyvinylsilane:

Species: Rat
LOAEL: 62.5 mg/kg
Application Route: Ingestion
Exposure time: 54 Days
Method: OECD Test Guideline 422

3-(2-aminoethylamino) propyltrimethoxysilane:

Species: Rat
NOAEL: > 500 mg/kg
Application Route: Oral
Exposure time: 28 Days

4-((Triethoxysilyl)methyl)morpholine:

Species: Rat
NOAEL: 100 mg/kg
LOAEL: 300 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Method: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

trimethoxyvinylsilane:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 191 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 168.7 mg/l Exposure time: 48 h
Toxicity to algae	:	ErC50 (Desmodesmus subspicatus (green algae)): > 957 mg/l Exposure time: 72 h NOEC (Desmodesmus subspicatus (green algae)): > 957 mg/l Exposure time: 72 h

3-(2-aminoethylamino) propyltrimethoxysilane:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): 597 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 81 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 8.8 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 25 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: >= 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10: 270 mg/l
Exposure time: 3 h
Remarks: Based on data from similar materials

4-((Triethoxysilyl)methyl)morpholine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 95.7 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 144 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): 25 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 6.6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC: 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Persistence and degradability

Components:

trimethoxyvinylsilane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 51 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

3-(2-aminoethylamino) propyltrimethoxysilane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 39 %
Exposure time: 28 d
Method: Regulation (EC) No. 440/2008, Annex, C.4-A

Stability in water : Degradation half life (DT50): 0.025 h pH: 7

1,3,5-Tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione:

Biodegradability : Result: Not readily biodegradable.

Remarks: Based on data from similar materials

4-((Triethoxysilyl)methyl)morpholine:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 54 - 61 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Bioaccumulative potential

Components:

3-(2-aminoethylamino) propyltrimethoxysilane:

Partition coefficient: n-octanol/water : log Pow: -0.3

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only

to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AE / EN

7- ISO certificate

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement and vehicle conversion or installation of storage systems including load securing in vehicles as well

including the sites see enclosure

has established and applies a Quality Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 9001:2015

are fulfilled.

The certificate is valid from **2024-04-10** until **2027-04-09**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

ENCLOSURE OF CERTIFICATE

Certificate Registration No.: **12 100 23791 TMS** / Order No.: **70020920**

certificate holder:

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau
Germany

at the sites	**scope**
Adolf Würth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany	Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.
Adolf Würth GmbH & Co. KG **Fahrzeugeinrichtungen** Am Seebach 2 74182 Obersulm-Willsbach Germany	Vehicle conversion or installation of storage systems including load securing in vehicles.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Management Service

CERTIFICATE

Certificate Registration No.: **12 104 23791 TMS** / Order No.: **70020920**

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that the organization

WÜRTH

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

for the scope

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement

has established and applies an Environmental Management System.

An audit was performed and has furnished proof
that the requirements according to

DIN EN ISO 14001:2015

are fulfilled.

The certificate is valid from **2024-05-24** until **2027-05-23**.

Fred Wenke
Head of Certification Body
Munich, 2024-03-13

IAF MLA DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-07/2023

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH

certifies that

Adolf Würth GmbH & Co. KG

Reinhold-Würth-Str. 12-17 • 74653 Künzelsau
Germany

has established and applies
an Energy Management System for

Development and distribution of fasteners, hand tools and storage systems. Distribution of products (standard parts, special parts, systems) for industrial safety, construction, workshops, fire protection technology, chemical-technical applications, anchor technology, direct assembly, electrical installations, material processing, installation, measuring technology, soldering and welding technology, as well as of products such as electrical and pneumatic tools and machines, small and replacement parts for automotive vehicles, advertising media. Installation of storage systems including load securing in automotive vehicles. Maintenance of electric power tools, pin driver technology and pneumatic tools as well as testing of fall arrest systems, length measuring tools (laser technology) and tools for torque measurement.

An audit was performed, Order No. **70020920**.

Proof has been furnished that the requirements
according to

ISO 50001:2018

are fulfilled.

The certificate is valid in conjunction
with the main certificate from **2022-10-04** until **2025-10-03**.

Certificate Registration No.: **12 340 23791/01 TMS**.

Head of Certification Body
Munich, 2022-10-05

DAkkS Deutsche Akkreditierungsstelle D-ZM-14143-01-00

MS/01-01/2019

8- Test Report

LAB N°0006

RAPPORTO DI CLASSIFICAZIONE DI RESISTENZA AL FUOCO/ *CLASSIFICATION REPORT OF FIRE RESISTANCE*

N° *CODICE INTERNO / INTERNAL CODE N°*

0141\DC\RFM\22_8

N° RAPPORTO DI CLASSIFICAZIONE / *CLASSIFICATION REPORT N°*

0141\DC\RFM\22_8

DATA DI EMISSIONE / *DATE OF ISSUE*

19/07/2023

BUSINESS UNIT

BU Conformity Assessment

LABORATORIO / *LABORATORY*

Fire Resistance

SEDE DEL LABORATORIO / *LABORATORY SITE*

Viale Lombardia, 20/B

20021 Bollate (MI) - ITALIA

LUOGO DI PROVA / *TEST□S SITE*

Viale Lombardia, 20/B

20021 Bollate (MI) - ITALIA

DESCRIZIONE DEL CAMPIONE / *DESCRIPTION OF THE SPECIMEN*

Sigillatura di giunti lineari /

Linear joint seals

CLIENTE / *SPONSOR*

Würth Gulf FZE

P.O. Box: 17036

Jebel Ali

Dubai □U.A.E.

DENOMINAZIONE DEL CAMPIONE / *TRADING NAME OF THE SPECIMEN*

Sigillante 1 / *Sealant* 1:

Würth Fire Resistant Weather Sealant W-FR

NORMA DI RIFERIMENTO / *REFERENCE STANDARD*

UNI EN 13501-2: 2016

DEVIAZIONI DAI METODI DI PROVA / *DEVIATION FROM STANDARD METHOD*

NO

CSI S.P.A. A SOCIO UNICO SOGGETTA AD ATTIVITÀ DI DIREZIONE E COORDINAMENTO DI IMQ GROUP S.R.L.
REA MI 1466310
R.I./C.F./P.I. 11360160151
Cap. Soc. € 1.040.000
Sede legale
Italia | 20030 Senago (MI) | Cascina Traversagna 21
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1. PREMESSA / *FOREWORD*

Questo Rapporto di Classificazione di resistenza al fuoco determina la classificazione attribuita al campione qui descritto in conformità alle procedure stabilite nella norma di classificazione.	*This Classification Report of Fire Resistance defines the classification of the specimen described herein according to the procedures defines in the Classification Report.*
Il presente rapporto di classificazione è redatto in due lingue: Italiano e Inglese. La versione ufficiale è quella italiana.	*This classification report is drawn up in two languages: Italian and English. The official version is the italian one*.
Il presente Rapporto è stato emesso secondo la procedura di "sponsorizzazione congiunta", definita nel EGOLF AGREEMENT n° EA039-2021.	This report is issued following the procedure of "joint sponsorship", defined in the EGOLF AGREEMENT n° EA039-2021.
Sono stati prodotti altri report, uguale a questo. Solamente la denominazione del campione in prova e l'intestatario del documento sono diversi.	Other reports have been produced, identical to this one. Only the trade name of the test sample and the holder of the document are different.

2. DETTAGLI DELL'ELEMENTO CLASSIFICATO / *DETAILS OF THE CLASSIFIED ELEMENT*

2.1 Tipo di funzione / *Type of function*

L'elemento sigillante 1: **Würth Fire Resistant Weather Sealant W-FR** è compiutamente descritto nel rapporto di prova in sussidio della classificazione elencato al paragrafo 3.	*The element sealant 1: **Würth Fire Resistant Weather Sealant W-FR** is fully described in the test report in support of the classification listed in paragraph 3.*
La funzione dell'elemento è di resistere all'incendio nel rispetto delle caratteristiche di prestazione al fuoco riportate nel paragrafo 5 della norma UNI EN 13501-2: 2016.	*The function of the element is to resist fire with respect to the fire performance characteristics given in clause 5 of UNI EN 13501-2: 2016 standard.*
Di seguito si riportano le caratteristiche principali degli elementi classificati.	*The main features of the classified elements are given below.*

2.2 Generalità / *General*

In tabella 1 si elencano le proprietà principali del campione in prova.	*Main properties of the tested element are listed in table 1.*

Sigillante 1/ *Sealant 1*

Descrizione	*Description*
Sigillante siliconico monocomponente non strutturale.	*One-component non-structural silicone sealant.*

Identificazione tecnologica / *Technological identification*	
Denominazione commerciale del prodotto / *Trade name of the product*	Würth Fire Resistant Weather Sealant W-FR
Distributore / *Distributor*	Würth Gulf FZE
Materiale [Tipo] / Material [Type]	Sigillante siliconico / *Silicone sealant*
Base chimica / *Chemical base*	Silicone / *Silicone*
Massa volumica / *Volumetric mass* [g/cm^3]	1,482
Residuo solido [%]	95,5 dopo indurimento / *after hardening*
Dati applicativi	
Temperatura di applicazione [°C]:	+5°C ÷ +40°C
Tempo inizio formazione pellicola superficiale [min] (°C; % H.R.)	80 min (23°C; 50% H.R.)
Tempo formazione pellicola superficiale fuori polvere [min] (°C; % H.R.)	80 min (23°C; 50% H.R.)
Tempo indurimento finale [mm/gg] (°C, % H.R.)	1,7 / 1gg/*dd* (23°C; 50% H.R.)
Prestazioni finali	
Durezza Shore A [valore]	30
Temperatura d□esercizio [°C]	-50° C ÷ 150° C
Allungamento a rottura [%]	270 % secondo EN ISO 8339/A, Al_up
Modulo elastico [MPa - % allungamento - temperatura]	0,22 Mpa (100%, 23° C) secondo EN ISO 8339/A, Al_up
Classificazione (ISO 11600)	
Classe*	ISO 11600-F-25LM EN 15651-1 F-EXT/INT-CC 25 LM

*Nota: la classe individua il tipo di giunto, la capacità di movimento ed il modulo elastico.

Tabella 1. Caratteristiche principali dei materiali sigillanti / Table 1. Main features of sealing materials

Legenda / *Legend:*

Giunto lineare / *Linear joint*	Vuoto lineare avente un rapporto lunghezza / larghezza pari ad almeno 10:1 situato entro uno o tra due o più elementi da costruzione / *Linear void having a length to width ratio of at least 10:1 within one or between two or more juxtaposed construction elements*.
Sigillatura del giunto lineare / *Linear joint seal*	Sistema progettato per mantenere la funzione di separazione al fuoco e, se pertinente, di sopportare uno specifico grado di movimento entro il giunto lineare. / *System designed to maintain the fire separating function and, if relevant, to accommodate a specified degree of movement within the linear joint.*
Costruzione di supporto / *Supporting construction*	Costruzione che può essere richiesta per la prova di elementi di separazione nei quali sono assemblati i campioni. / *Construction that may be required for the testing of some separating elements into which the test specimen is assembled, e.g. the wall into which a linear joint seal is fitted.*
Costruzione in prova / *Test construction*	Assemblaggio completo di un campione in prova con la relativa costruzione di supporto. / *Complete assembly of the test specimen together with its supporting construction*
Campione in prova / *Test specimen*	Sigillatura dei giunti lineari di materiale specifico, progettata e dimensionata allo scopo di determinare la propria resistenza al fuoco o il contributo di resistenza al fuoco apportato ad un altro elemento di separazione. / *Linear joint seal of a specific material, design and dimensions provided for the purpose of determining either its fire resistance or its contribution to the fire resistance of another separating element.*
Larghezza nominale del giunto/ *Nominal joint width*	Larghezza specifica di una sigillatura scelta dal Cliente / *Specified width of a joint seal, to be selected by the manufacturer or test sponsor.*
Capacità di movimento / *Movement capability*	Massimo valore di spostamento che la sigillatura è in grado di sopportare come dichiarato dal committente, espresso come percentuale della larghezza nominale. / *Maximum amount of movement the joint seal is able to tolerate as stated by the manufacturer or the sponsor, expressed as a percentage of the nominal width.*
Giunto a sovrapposizione / *Splice*	Connessione o giunzione tra od entro la lunghezza di un giunto. / *Connection or junction between or within the length of a linear joint seal*
n.a. / *n.a.*	NON applicabile / *NOT aplicable*
n.d. / *n.d.*	NON dichiarato / *NOT declared*

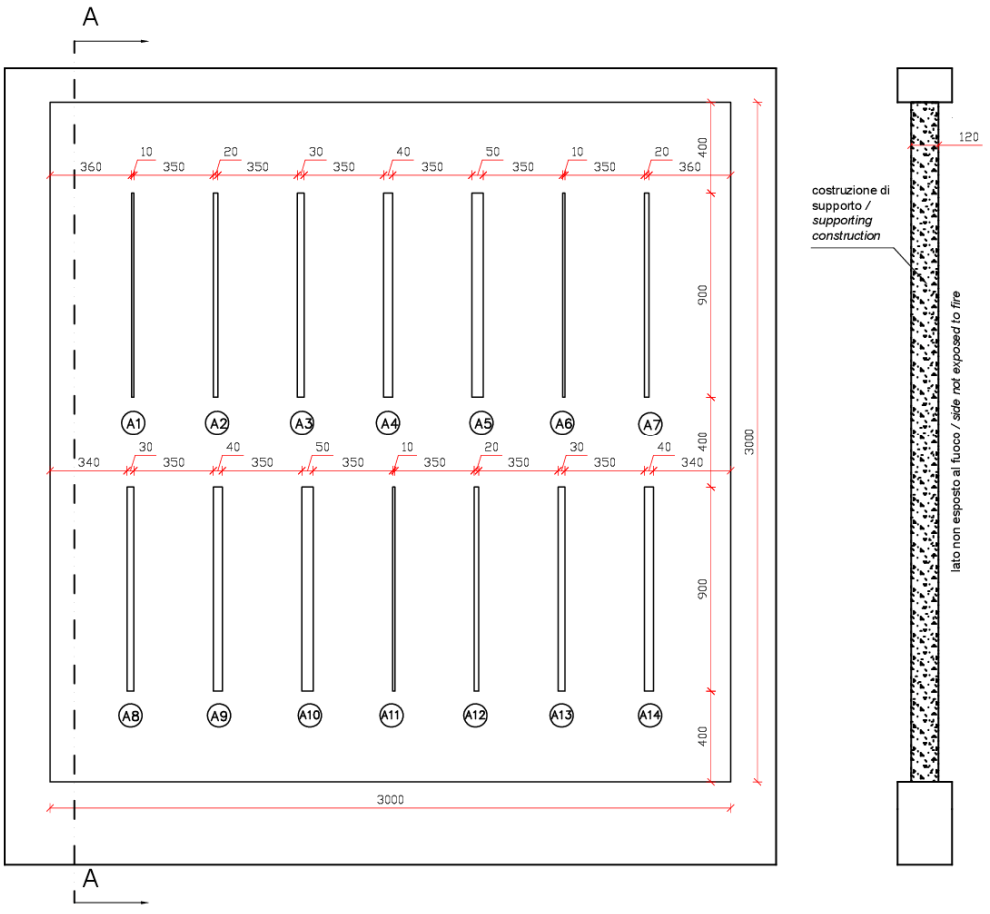
2.3 Disegni dell'elemento classificato / *Drawings of the classified element*

Di seguito si riportano i disegni principali dell'elemento classificato.

Main drawigs of the classified element are shown below.

Prova del 06/06/2022 / *Test dated 06/06/2022*

PROSPETTO FRONTALE E SEZIONE DELLA COSTRUZIONE DI SUPPORTO / FRONT VIEW AND SECTION OF THE SUPPORTING CONSTRUCTION



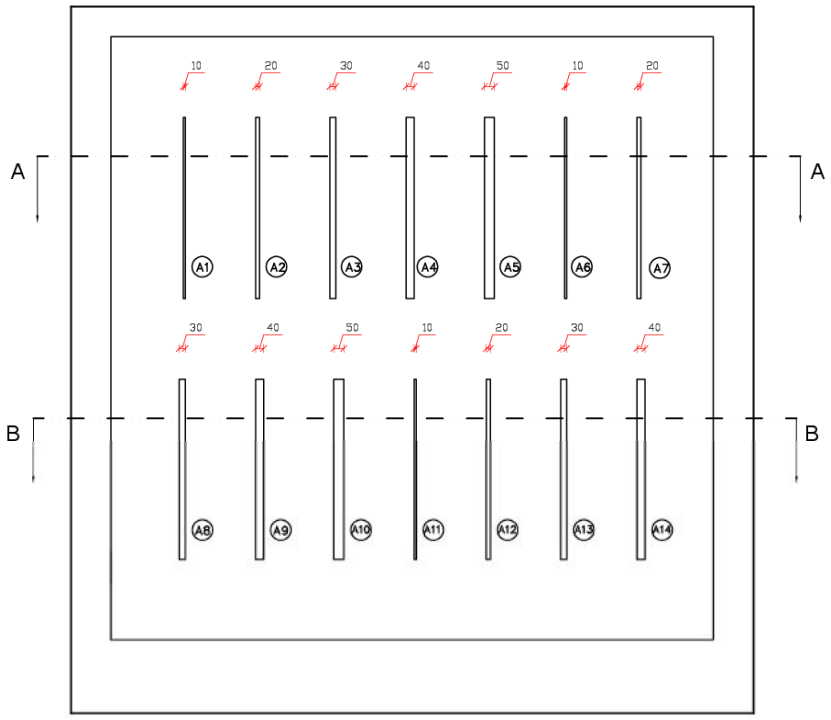
SEZ. A-A

Parete in calcestruzzo areato autoclavato - spessore 120 mm / Autoclaved areated concrete wall - thickness 120 mm

Misure in millimetri / Measures in millimeters

SCHEMA DI DISPOSIZIONE GIUNTI /
POSITION DIAGRAM JOINTS

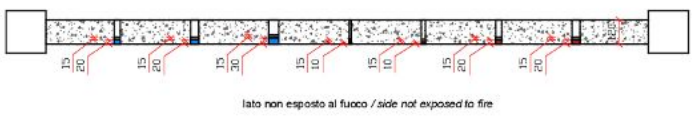
LATO NON ESPOSTO AL FUOCO /
SIDE NOT EXPOSED TO FIRE





lato non esposto al fuoco / *side not exposed to fire*

SEZ. A-A



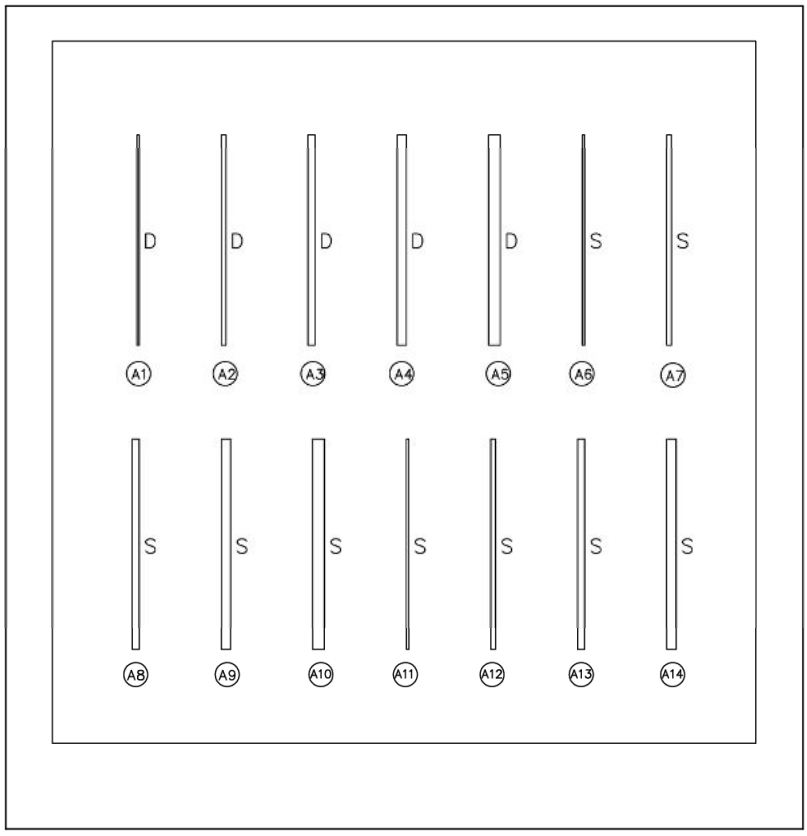
lato non esposto al fuoco / *side not exposed to fire*

SEZ. B-B



SCHEMA DI DISPOSIZIONE GIUNTI / *POSITION DIAGRAM JOINTS*

LATO NON ESPOSTO AL FUOCO / *SIDE NOT EXPOSED TO FIRE*



LEGENDA / *KEY*

◯ Numero identificazione sigillatura / *Seal identification number*

S - D Modalità di sigillatura: singola o doppia / *Sealing mode: single or double*

2.4 Dimensioni e orientamento dei campioni / *Dimension and orientation of the speciments*

Di seguito vengono identificati le tipologie di sigillature presenti in prova in base alle caratteristiche dimensionali, alla modalità di posa ed alla tipologia di materiale sigillante utilizzato.

Identifies the types of sealings present in the test based on the dimensional characteristics, the laying method and the type of sealing material used, are shown below.

Prova del 06/06/2022 / *Test dated 06/06/2022*

IDENTIFICAZIONE DEI CAMPIONI PROVATI / *IDENTIFICATION OF THE SAMPLES TESTED*							
Identificazione del giunto / *Identification of the joint*		**Larghezza del giunto / *Width of the joint***	**Spessore della costruzione di supporto / *Thickness of the supporting construction***	**Spessore del sistema di sigillatura / *Thickness of the sealing system***		**Orientamento / *Orientation***	**Modalità di posa / *Modality of application***
				Sigillante / *Sealant*	**Spessore totale / *Total thickness***		
Unità di misura / *Unit of measurement*	[n°]	[mm]	[mm]	[mm]	[mm]	V / *V* O / *H*	Id.
Sigillante 1/ *Sealant* 1	A1	10	120	10+10	20	V / *V*	□D□ Doppia / *Double*
	A2	20	120	10+10	20	V / *V*	
	A3	30	120	20+20	40	V / *V*	
	A4	40	120	20+20	40	V / *V*	
	A5	50	120	30+30	60	V / *V*	
	A6	10	120	10	10	V / *V*	□S□ Singola su lato non esposto / *Single on the unexposed side*
	A7	20	120	10	10	V / *V*	
	A8	30	120	20	20	V / *V*	
	A9	40	120	20	20	V / *V*	
	A10	50	120	30	30	V / *V*	

Tabella 2. Identificazione dei campioni provati per caratteristiche dimensionali, posologia e tipologia del materiale sigillante / *Table 2. Identification of samples tested for dimensional characteristics, dosage and type of sealing material*

*Nota: gli spessori sono riferiti al quantitativo totale di materiale presente nel giunto / *Note: the thicknesses refer to the total quantity of material present in the joint*

3. RAPPORTI DI PROVA E RISULTATI DI PROVA IN SUPPORTO A QUESTA CLASSIFICAZIONE / *TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION*

Questo Rapporto di Classificazione è comprovato dai seguenti rapporti di prova e risultati.

This classification report is supported by the following test reports and test results.

3.1 Rapporti di prova / *Test reports*

Informazioni generali / *General informations*

Laboratorio di prova / *Testing laboratory*	CSI S.p.A. Viale Lombardia, 20/B 20021 Bollate (MI)
Committente / *Client*	Würth Gulf FZE P.O. Box: 17036 Jebel Ali Dubai U.A.E.
N° codice interno / *Internal code n°*	Prova 1 / *Test 1: 0141\DC\RFM\22_7*
Rapporto di prova n° / *Test report n°*	Prova 1 / *Test 1: 0141\DC\RFM\22_7*
Data della prova / *Date of test*	Prova 1 / *Test 1:* 06/06/2022

Condizioni di esposizione / *Exposure conditions*

Curva di riscaldamento / *Heating curve*	Normalizzata UNI EN 1363-1: 2020 / *Standard UNI EN 1363-1: 2020*
Direzione dell□esposizione al fuoco / *Direction of fire exposure*	- Elementi simmetrici con modalità di posa doppia □D□. - Elemento asimmetrico con modalità di posa singola □S□. Sigillante applicato lato non esposto al fuoco. / - *Symmetrical elements with double □D□laying mode.* - *Asymmetrical element with single □S□laying mode. Sealant applied on the side unexposed to fire.*
Condizioni di supporto / *Support conditions*	<u>Prova del 06/06/2022 / *Test dated 06/06/2022*</u> Parete in calcestruzzo aerato con densità 550 kg/m^3 con uno spessore complessivo di 120 mm. / *Aerated concrete wall with a density of 550 kg/m^3 with an overall thickness of 120 mm.*

3.2 Risultati di prova / *Test results*

Prova del 06/06/2022 / *Test dated 06/06/2022*

Norma rif. / *Ref. standard UNI EN 1366-4: 2021*				**Tempo di mantenimento del criterio di prestazione / *Time to maintain the performance criterion***		
				Isolamento / *Insulation* (I)	**Tenuta / *Integrity* (E)**	
Identificazione giunto / *Joint identification*		**Larghezza del giunto / Width of the joint**	**Orientamento del giunto / *Orientation of the joint***	**ΔT ≤ 180°C**	**Tampone di cotone / *Cotton Pad***	**Fiamma persistente / *Sustained flaming***
	[n°]	[mm]	Verticale / *Vertical* Orizzontale / *Horizontal*	[min]	[min]	[min]
Sigillante 1/ *Sealant* 1	A1	10	V / *V*	185□	n.a.	n.a.
	A2	20	V / *V*	133□	n.a.	n.a.
	A3	30	V / *V*	194□	n.a.	n.a.
	A4	40	V / *V*	128□	n.a.	n.a.
	A5	50	V / *V*	213□	n.a.	n.a.
	A6	10	V / *V*	78□	n.a.	n.a.
	A7	20	V / *V*	48□	n.a.	n.a.
	A8	30	V / *V*	90□	n.a.	n.a.
	A9	40	V / *V*	83□	n.a.	n.a.
	A10	50	V / *V*	152□	n.a.	n.a.

Durata della prova / *Duration of the test* [min]	241□

NOTA / *NOTE*

n.a. Indica □non applicabile□ quando il criterio prestazionale è stato soddisfatto fino al termine della prova (assenza di fallimento) oppure quando non è pertinente per il campione provato. / *Stands for □not applicable□when the performance criterion is maintained up to the termination of the test (no failure) or when it is not significant for the tested specimen.*

4. CLASSIFICAZIONE E CAMPO DI APPLICAZIONE DIRETTA / CLASSIFICATION AND FIELD OF DIRECT APPLICATION

4.1 Riferimento della classificazione / *Reference of classification*

Questa classificazione è stata condotta conformemente al paragrafo 7.5.9.4 della UNI EN 13501-2: 2016.

This classification was carried out in accordance with clause 7.5.9.4 of UNI EN 13501-2: 2016 standard.

4.2 Classificazione / *Classification*

L□elemento sigillante 1: **Würth Fire Resistant Weather Sealant W-FR** è classificato secondo la seguente combinazione di parametri di prestazione e classi. Non sono consentite altre classificazioni.

*The element sealant 1: **Würth Fire Resistant Weather Sealant W-FR** is classified according to the following combinations of performance parameters and classes. No other classifications are permitted.*

Identificazione giunto / *Joint identification*		**Larghezza del giunto / Width of the joint [mm]**	**Orientamento del giunto / *Orientation of the joint***	**Modalità di applicazione / Modality of application**	**Classe del giunto / *Class of the joint***		
					EI	**E**	**Classi aggiuntive / *Additional classes***
Sigillante 1/ *Sealant* 1	A1	10	V / V	Simmetrica/ *Symmetric*	**180**	**240**	**V □X □W 10**
	A2	20	V / V	Simmetrica/ *Symmetric*	**120**	**240**	**V □X □W 20**
	A3	30	V / V	Simmetrica/ *Symmetric*	**180**	**240**	**V □X □W 30**
	A4	40	V / V	Simmetrica/ *Symmetric*	**120**	**240**	**V □X □W 40**
	A5	50	V / V	Simmetrica/ *Symmetric*	**180**	**240**	**V □X □W 50**
	A6	10	V / V	Asimmetrica/ *Asymmetric*	**60**	**240**	**V □X □W 10**
	A7	20	V / V	Asimmetrica/ *Asymmetric*	**45**	**240**	**V □X □W 20**
	A8	30	V / V	Asimmetrica/ *Asymmetric*	**90**	**240**	**V □X □W 30**
	A9	40	V / V	Asimmetrica/ *Asymmetric*	**60**	**240**	**V □X □W 40**
	A10	50	V / V	Asimmetrica/ *Asymmetric*	**120**	**240**	**V □X □W 50**

Legenda / *Legend*

- H costruzione di supporto orizzontale / *horizontal supporting construction*
- V costruzione di supporto verticale □giunto verticale / *vertical supporting construction* □*vertical joint*
- T costruzione di supporto verticale □giunto orizzontale / *vertical supporting construction* □*horizontal joint*
- X movimento non applicato / *no movement*
- W range larghezza giunto (mm) / *joint widths range (mm)*

4.3 Campo di applicazione diretta / *Field of direct application*

L'elemento sigillante 1: **Würth Fire Resistant Weather Sealant W-FR** ha il seguente campo di applicazione diretta.

The element sealant 1: ***Würth Fire Resistant Weather Sealant W-FR*** *has the following field of direct application.*

Norma di riferimento / *Reference standard*	**UNI EN 1366-4: 2021**
I risultati della prova di resistenza al fuoco sono direttamente applicabili a costruzioni simili in cui siano state effettuate una o più delle modifiche indicate nel seguito e che continuino a rimanere conformi al codice di progettazione appropriato in termini di rigidità e stabilità. Non sono consentite altre modifiche.	*The results of the fire test are directly applicable to similar constructions where one or more of the changes listed below are made and the construction continues to comply with the appropriate design code for its stiffness and stability.* *Other changes are not permitted.*

Par. 13.1 Orientamento / *Orientation*	
Non è consentita alcuna variazione di orientamento dei giunti e/o della costruzione di supporto, per i giunti lineari testati in una costruzione di prova verticale.	*Variations of the orientation of linear joints and/or of the specimens are not allowed, for linear joints tested in a vertical test construction.*

Par. 13.2 Costruzione di supporto / *Supporting construction*	
I risultati ottenuti con le costruzioni portanti standard in calcestruzzo aerato autoclavato si applicano a elementi di separazione in calcestruzzo aerato, calcestruzzo, blocchi e muratura di spessore e densità uguali o superiori a quelli testati.	*Results obtained with autoclaved aerated concrete standard supporting constructions apply to aerated concrete, concrete, blockwork and masonry separating elements of a thickness and density equal to or greater than tested.*

Par. 13.3 Posizione dei sigillanti / *Seal position*	
Non è consentita alcuna variazione della posizione dei sigillanti.	*Variations of the seal position are not allowed.*

Par. 13.4 Movimenti indotti meccanicamente / *Mechanically induced movement*	
Non è permesso applicare alcun movimento	*No movement is permitted.*

Par. 13.5 Dimensioni/ *Dimensions*	
I risultati del test per una particolare profondità della sigillatura e larghezza nominale del giunto coprono larghezze nominali del giunto più strette e profondità della sigillatura uguali o maggiori, a condizione che la larghezza minima prevista della sigillatura possa essere riempita nella profondità della sigillatura prevista.	*Test results for a particular seal depth and nominal joint width cover narrower nominal joint widths and equal or greater seal depths, provided the smallest intended seal width can be filled in the intended seal depth.*

5. LIMITAZIONI / LIMITATIONS

5.1 Restrizioni / *Restrictions*

Non esistono restrizioni alla durata di validità del presente Rapporto di Classificazione	No restrictions are given on the duration of the validity of this Classification Report

5.2 Avvertenza / *Warning*

Questo Rapporto di Classificazione non costituisce omologazione o certificazione del prodotto.	This document does not represent type approval or certification of the product.

Dichiarazioni / Declaration

Il presente rapporto non può essere riprodotto parzialmente senza l'autorizzazione del Responsabile del Centro / *This test report cannot be reproduced partially without the consent of the test center Managing Director*

DATA	**Operating Sector Resistance to Fire**	**BA Building & Construction**
Date	***Operating Sector Resistance to Fire***	***BA Building & Construction***
	Ing. Andrea Appiani	**Ing. Paolo Mele**
19/07/2023	CSI S.p.A. Viale Lombardia, 20/B 20021 BOLLATE (MI)	CSI S.p.A. Viale Lombardia, 20/B 20021 BOLLATE (MI)

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FINE RAPPORTO DI CLASSIFICAZIONE / *END OF CLASSIFICATION REPORT*

Razón Social / FUNDACIÓN TECNALIA RESEARCH & INNOVATION Nº F-69 Registro de Fundaciones del Gobierno Vasco CIF G48975767

CLASSIFICATION REPORT No. 100863-001-4

CLIENT	WÜRTH GULF FZE
ADDRESS	JEBEL ALI SOUTH 6 - DUBAI (UAE)
PURPOSE	FIRE RESISTANCE CLASSIFICATION REPORT ACCORDING TO EN 13501-2:2016
TEST SPECIMEN	LINEAR JOINT SEALS **REF. «Weather Sealant W-FR»**
RECEPTION DATE	12.08.2022
TEST DATE	07.10.2022
ISSUE DATE	17.07.2023

Technical responsible

P.A. Eñaut Aguirregabiria



- The results of the current report concern only and exclusively the sample tested.
- This report shall not be reproduced, except in full, without the express authorisation of FUNDACIÓN TECNALIA R&I.
(*) Data provided by the client. FUNDACIÓN TECNALIA R&I accepts no responsibility or liability for the data provided by the customer.

1. INTRODUCTION

This classification report defines the fire resistance classification assigned to a rigid wall with several linear joint seals referenced as **«Weather Sealant W-FR»** in accordance with the procedures established in [C].

1.1. REFERENCE STANDARDS

[A] *EN 1363-1:2020 "Fire resistance tests – Part 1: General Requirements".*

[B] *EN 1366-4:2021 "Fire resistance tests for service installations - Part 4: Linear joint seals".*

[C] *EN 13501-2:2016 "Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services".*

2. DETAILS OF THE CLASSIFIED ELEMENT

2.1. GENERAL INFORMATION

The sample referenced as **«Weather Sealant W-FR»** is defined as a rigid wall with several linear joint seals, fire resistant wall as stated in [C] 7.5.9.

2.2 SAMPLE CHARACTERISTICS

The element, a rigid wall with several linear joint seals with reference **«Weather Sealant W-FR»**, is fully described below or in the test reports that support this classification listed in Section 3.1.

The main descriptive characteristics were provided by the applicant.

This information is included in Annex 4 (*) of the test report listed in Section 3.1.

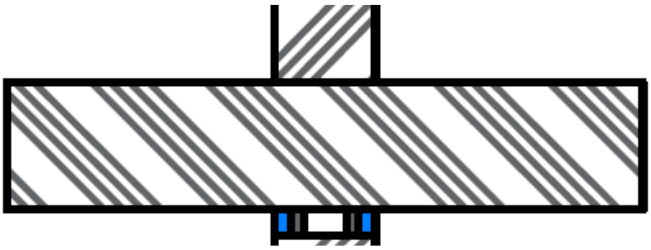
The verification of the sample was carried out during its assembly.

The description of the sample verified by the laboratory is the following:

Description of the sample (*):

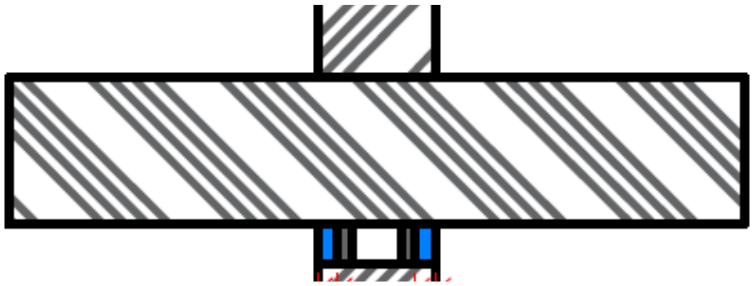
«Linear joint sealing E1»

Type:	Double linear joint installed in the edge of the depth of the support construction (see below detail) composed by Weather Sealant W-FR and Backfill sealant.
Reference	Weather Sealant W-FR.
Application method	Applied by pneumatic cartridge pistol.
Width of the joint (mm)	30
Depth of the joint (mm)	20
Length of the joint (mm)	900
Orientation of the joint	Horizontal
Type of bottom seal	Backfill sealant.
Depth of bottom seal (mm)	15
Fire exposed direction	Symmetrical specimen exposed in one side.



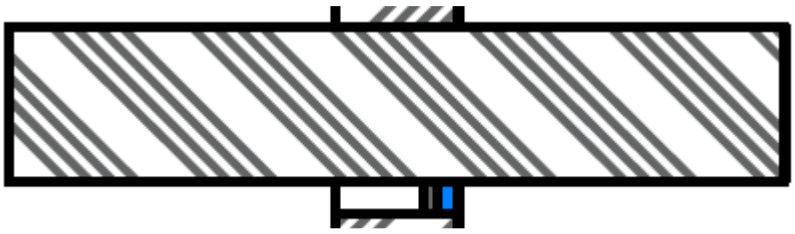
«Linear joint sealing E2»

Type:	Double linear joint installed in the edge of the depth of the support construction (see below detail) composed by Weather Sealant W-FR and Backfill sealant.
Reference	Weather Sealant W-FR.
Application method	Applied by pneumatic cartridge pistol.
Width of the joint (mm)	40
Depth of the joint (mm)	20
Length of the joint (mm)	900
Orientation of the joint	Horizontal
Type of bottom seal	Backfill sealant.
Depth of bottom seal (mm)	15
Fire exposed direction	Symmetrical specimen exposed in one side.



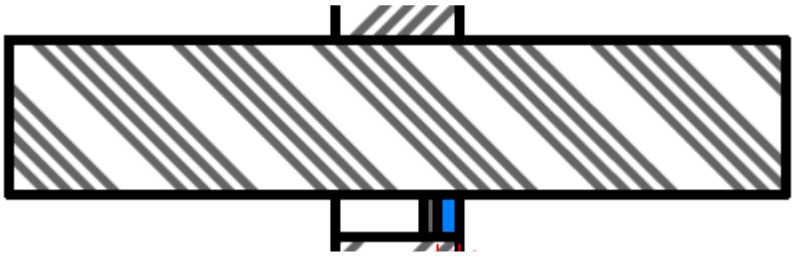
«Linear joint sealing E3»

Type:	Linear joint composed by Weather Sealant W-FR and Backfill sealant.
Reference	Weather Sealant W-FR.
Application method	Applied by pneumatic cartridge pistol.
Width of the joint (mm)	30
Depth of the joint (mm)	20
Length of the joint (mm)	900
Orientation of the joint	Horizontal
Type of bottom seal	Backfill sealant.
Depth of bottom seal (mm)	15
Fire exposed direction	Opposite side from the installation side (left side)



«Linear joint sealing E4»

Type:	Linear joint composed by Weather Sealant W-FR and Backfill sealant.
Reference	Weather Sealant W-FR.
Application method	Applied by pneumatic cartridge pistol.
Width of the joint (mm)	40
Depth of the joint (mm)	20
Length of the joint (mm)	900
Orientation of the joint	Horizontal
Type of bottom seal	Backfill sealant.
Depth of bottom seal (mm)	15
Fire exposed direction	Opposite side from the installation side (left side)



Assembly

The assembly of the specimen was realized completely by the client.

End date of specimen's assembly: 01.09.2022

No subsequence additions of service facilities were made to the specimens.

For more information see the construction details of Annex 1 of the test report listed in Section 3.1. of this report.

3. TEST REPORT AND TEST RESULTS SUPPORTING THE CLASSIFICATION

3.1 TEST REPORTS

Laboratory name	Applicant's name	Report reference No.	Test method	Test date
TECNALIA RESEARCH & INNOVATION	*WÜRTH GULF FZE*	*100863-001-1*	*[B]*	*07.10.2022*

3.2 RESULTS

Test results

		"Linear joint E1"	"Linear joint E2"
Integrity (E)		**240 min**	**240 min**
Performance criterion			
Cotton pad	Flaming or glowing of the cotton pad.	240 min(1)	240 min(1)
Gauge Ø 6 mm	Openings in the sample which allow the gauge to move more than 150 mm along the opening.	240 min(1)	240 min(1)
Gauge Ø 25 mm	Opening in the sample which allow the gauge to pass through.	240 min(1)	240 min(1)
Sustained flaming > 10 s	Sustained flaming on the unexposed side of the sample for more than 10 s.	240 min(1)	240 min(1)
Insulation (I)		**240 min**	**240 min**
Performance criterion			
Maximum temperature	Not exceeding the initial temperature of each thermocouple by 180ºC	240 min(1)	240 min(1)

(1): Measurement for this criterion was interrupted due to request of the client to stop the test.

		"Linear joint E3"	"Linear joint E4"
Integrity (E)		**240 min**	**240 min**
Performance criterion			
Cotton pad	Flaming or glowing of the cotton pad.	240 min(2)	240 min(2)
Gauge Ø 6 mm	Openings in the sample which allow the gauge to move more than 150 mm along the opening.	240 min(2)	240 min(2)
Gauge Ø 25 mm	Opening in the sample which allow the gauge to pass through.	240 min(2)	240 min(2)
Sustained flaming > 10 s	Sustained flaming on the unexposed side of the sample for more than 10 s.	240 min(2)	240 min(2)
Insulation (I)		**166 min**	**149 min**
Performance criterion			
Maximum temperature	Not exceeding the initial temperature of each thermocouple by 180ºC	166 min(1)	149 min(1)

(1): Measurement for this criterion was interrupted due to insulation failure, maximum temperature.
(2): Measurement for this criterion was interrupted due to request of the client to stop the test.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 CLASSIFICATION REFERENCE

This classification was carried out in accordance with [C] Chapter 7.

4.2. CLASSIFICATION

According to [C], the rigid wall with several linear joint seals referenced as **«Weather Sealant W-FR»** was granted the following classification:

Specimen installed on the unexposed face:

EI							**120**		
E									**240**

Fire Resistance Classification: EI 120-T-X-W 30 a W 40

Symmetrical specimen exposed in one side:

EI									**240**
E									**240**

Fire Resistance Classification: EI 240-T-X-W 30 a W 40

4.3 DIRECT FIELD OF APPLICATION

The direct field of application of the test results refers to those changes that can be carried out on a sample after a fire resistance test with a satisfactory result. These variations can be entered automatically without the need for the applicant to obtain additional evaluations, calculations or approvals.

Parameter	Permitted variation	Tested sample
Orientation	Change to horizontal linear joint in a vertical test construction.	Horizontal wall joint abutting a floor, ceiling, or roof.
Support construction.	Rigid construction made of aerated concrete, concrete, blockwork and masonry with equal or higher density and thickness	Thickness: 120 mm. Density: 550 kg/m^3.
General dimensions	Increase of the depth of sealing. Decrease of the width of sealing	Depth of 20 mm of the Weather Sealant W-FR, and depth of 15 mm of the backfill sealant PU. Width of 40 mm.

Any modifications that have not been expressly included in the sections above will not be considered for the purpose of possible changes without due additional express approvals.

5. LIMITATIONS

This classification document does not represent any sort of product approval or certification.

9- DCL under

TYPE 1B CERTIFICATE OF PRODUCT CONFORMITY

ISSUED TO	:	WURTH GULF FZE JAFZA SOUTH 6/ DUBAI-UAE Representative ABDULRAHMAN HUSSEIN CATEGORY MANAGER
PRODUCT DESCRIPTION	:	WEATHER SEALANT W-FR Batch Number: 7000772118, 3414017915 & ZM096/1 QUANTITY: 600ml X 10000 Pieces MANUFACTURER: WURTH
STANDARD SPECIFICATIONS:	:	AL SA'FAT 2023 2nd Edition
TITLE OF STANDARD	:	2023 Al Sa'fat Dubai Green Building System
SPECIFIC RULES NO.	:	DM-DCLD-RD-DP32-5103 (IC)
EVALUATION REPORT NO.	:	RA24052413
SAMPLE ID. NO./SENDER NO.	:	AJ5595

ATTESTATION

Dubai Central Laboratory Department-<u>Certification and Quality Control of Products Section</u> hereby attests that the product as described above conforms to the requirements of the standard specifications as mentioned. This attestation is based on the results of tests conducted on samples selected from the above product using a sampling procedure given in the specific rules and evaluated as per attached Evaluation Report. It is applicable only to the product as described in this Certificate and does not cover the entire production of the factory.

CB-PRD-001

PRODUCT CONFORMITY

Manager-Certification and Quality Control of Products Section

Dubai Central Laboratory Department

Certificate No: BBCE-2024-002023
Date Issued: 05/11/2024
Valid Up To: 04/11/2025

This certificate shall not be reproduced except in full and any alteration on this document will invalidate this certificate. The Evaluation Report mentioned above forms an integral part of this Certificate.This Document is electronically approved and does not required a signature.To verify the authenticity of this document please scan the above QR Code. This certification is in accordance with Certification Scheme Type 1b as described in ISO/IEC 17067:2013

EVALUATION REPORT NO.	**RA24052413**
DATE	**18th October 2024**
CLIENT NAME	**Wurth Gulf Fze (CS-116)**
PRODUCT DESCRIPTION	**WEATHER SEALANT W-FR**
REFERENCE STANDARD	**DM-DCLD-RD-DP32-5109 (IC) Specific Rules for Type 1 Certification of VOC of Adhesives and Sealants as per Related Sections in Al Sa'fat and Dubai Building Code.**
SAMPLE ID NO.	**AJ5595**
APPLICATION NO.	**BBCE-2024-002023**

DETAILS OF EVALUATION:

REQUIREMENTS	STANDARD CRITERIA	RESULT	TESTING LABORATORY	TEST REPORT NO.	REMARKS
Volatile Organic Compounds (VOC)	Architectural Sealant (250 g/l (max)	62	DCL-IBMLS	811338	Passed

FINAL RECOMMENDATION
Since the above test results satisfactorily complied with the minimum requirements of Type 1 Product Certification Specific Rules for Adhesives / Sealants in accordance with the Al Sa'fat Dubai Building Code, issuance of Certificate of Product Conformity on the above mentioned product is hereby recommended.

EVALUATED BY	**NOTED & APPROVED BY**
_____ **ABOOBACKER MOIDEENKUTTY** Products Conformity Officer	_____ **MAJED AL SHAMSI** Certification and Quality Control of Products Section Manager (CQPSM).
Date: 18th October 2024	Date: 18th October 2024

Report No:	811338	**Request No:**	EMTX-2024-0075846
Project No:	CS-116	**Report Date:**	14/10/2024 12:11PM
Project Name:	Wurth Gulf Fze		
Consultant:	DUBAI MUNICIPALITY		
Contractor:	Wurth Gulf Fze		
Location: *	Trader Warehouse		
Source: *	NOT GIVEN		
Sample Description: *	SEALANT		
Product Name: *	WEATHER SEALANT W-FR		

Sampling Date/Time: *	09/09/2024 01:16PM	**Lot/Batch/Coil/Heat No.***	ZM096/1
Receiving Date/Time:	08/10/2024 01:45PM	**Lot Size:** *	10000 pieces
Sample Size /Quantity:	1 pieces	**Sender No:**	AJ5595
Material/Mix Type: *	NA	**Laying Date/Production Date:** *	NA

Nominal Size / Working Block Size (mm) : NA

TEST RESULTS

PARAMETER	RESULTS
VOC Content in g/L	62
SPECIFICATION LIMIT *	As per Clause [404.02] Al Sa'fat dbc.

Sampled By:	AMKUTTY	**Tested By:**	REDASH
Sampled Brought By:	AMKUTTY	**Testing Date:**	08/10/2024 01:45PM
Sampling Method:	SAMPLING AS PER THE RELEVANT SPECIFIC RULES	**Sampling Report No:**	NA
Test Method:	DMS 0033 : 2016	**Test Method Variation:**	NIL

Remarks:	CUSTOMER PERFORMED SAMPLING AND PROVIDED THE SAMPLE, DENSITY VALUE HAS BEEN TAKEN FROM CUSTOMER PROVIDED DATA, THE RESULTS APPLY ONLY TO THE SAMPLE AS RECEIVED AND TESTED.EXEMPT COMPOUNDS NOT CALCULATED. THIS TEST METHOD IS CHOSEN BY CUSTOMER.

Disclaimer : * Information is supplied by the customer and Laboratory is not responsible for this data.

To verify this document please go to : **https://www.dm.gov.ae/#check-tab5**
Enter Document ID: **EMTX-2024-0075846** and Verification Code: **1399648**
or Scan the QR code below.

This report shall not be reproduced except in full without approval of the laboratory.

Report No:	811338	**Request No:**	EMTX-2024-0075846

*** END OF REPORT ***

This report is computer approved and authorized by In Charge of Lab and does not require any signature.

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10- DCD/ADCD

United Arab Emirates

Ministry of Interior

General Directorate of Civil Defense

دولة الامارات العربية المتحدة

وزارة الداخلية

القيادة العامة للدفاع المدني

رقم الترخيص 2018-1-215619 :

سنة الترخيص : 2024

عدد التراخيص : 1

ترخيص وكيل

تم إصدار الترخيص استنادا إلى القرار الوزاري رقم (24) لسنة 2012 ، في شأن تنظيم خدمات الدفاع المدني

الاسم التجاري للمنشأة	مؤسسة الاعتماد للمواد الهندسية	**رقم الرخصة**	CN-1096105	**رقم السجل**	2018-1-215619
اسم صاحب الترخيص	مرشد عبده مرشد الرديني	**الجنسية**	-		
نوع النشاط				**منطقة النشاط**	أبوظبي
رقم الهاتف	025544700	**رقم الفاكس**		**ص.ب**	111958
عنوان الشركة	صياح محمد موسى القبيسي - مصفح الصناعية . مصفح الصناعية. أبوظبي أبوظبي				
الموقع و البريد الإلكتروني					
تاريخ تأسيس المنشأة	24/01/0022	**تاريخ الإصدار**	05/07/2024	**تاريخ الانتهاء**	15/10/2024

عدد المعدات و الأجهزة المراد ترخيصها 7

عدد المهندسين المعتمدين 0 **عدد الفنيين المعتمدين** 0

- تم تسديد الرسوم بإيصال رقم .(323406409705075418)

يعتمد/

رؤيتنا أن تكون دولة الإمارات العربية المتحدة من أفضل دول العالم في تحقيق الأمن و السلامة

رقم الترخيص 2018-1-215619 :

سنة الترخيص : 2024 الاسم التجاري للمنشأة : مؤسسة الاعتماد للمواد الهندسية

عدد التراخيص : 1

م	اسم المعدة/المواد/النظام	الاسم التجاري	بلد الصنع	رقم قيد الوكالة	منطقة الوكالة	تاريخ انتهاء قيد الوكالة	رقم شهادة السلامة	اسم المختبر الصادر للشهادة
5	الطلائات والمواد المانعة من انتشار الحريق : مواد مانعة لإنتشار الحريق - نظام مانع لإنتشار الحريق	WURTH	إيطاليا	18095	أبوظبي	08/07/2024	MPABS-2400394	TECNALIA. SPAIN
	رقم الموديل : 089330 1016Weather_Sealant_W-FR_سيلكون مانع للتسريب مقاوم للظروف الجوية و مقاوم للحريقBS EN 1366-4/ 1363-1 up to 240 EI.Classification with PE Backing rod up to EI 120-H-X-F-W5..W14Classification with Mineral Wool Plate Backing up to EI 240-H-X-F-W15..W25Classification (System) EI 240-H-X-F-W15..W25							

ملاحظة:
1 . يعتبر الوكيل مرخص من قبل الإدارة العامة للدفاع المدني -أبوظبي و يحق له مزاولة نشاطه في إمارة أبوظبي فقط. استنادا إلى قرار مجلس الوزاري رقم (24) لسنة 2012 في شأن تنظيم خدمات الدفاع المدني للائحة التنفيذية رقم (213) لسنة 2017 . و لا يحق له مزاولة أنشطته في باقي الإمارات إلا بعد استخراج ترخيص موزع من قبل الإدارات العامة ذات الاختصاص بكل إمارة.
2 . يحق للوكيل تركيب و صيانة المعدات المراد تداولها و المسجلة بترخيصه فقط.
3 . إبلاغ الإدارة العامة للدفاع المدني في حالة تغيير أو تعديل في البيانات المتعلقة في ترخيص الصادر من قبل الإدارة العامة للدفاع المدني.

يعتمد/

رؤيتنا أن تكون دولة الإمارات العربية المتحدة من أفضل دول العالم في تحقيق الأمن و السلامة

11- Country of OriginD

Country Of Origin

TO WHOM IT MAY CONCERN

We herewith declare under our sole responsibility that:

Wurth Weather Sealant

Article Number	Description	Made In
0893 301016	WEATHER SEALANT -FIRE RATED 600 ML	Italy

Is manufactured exclusively in our factories under supervision of our Wurth Quality Control laboratories and the country of origin is Italy.

Abdul Rahman Hussein

Product Department

وورث جلف ش.م.ح
WÜRTH GULF FZE
P.O.Box: 17036
Product Department

Wurth Gulf FZE-Plot # S61303, Jebel Ali South 6 ,Dubai ,U.A.E - P.O.Box:17036
T: +9714 8809991, 04 8834229(old), F: +971 4 8809255, 04 8834303(old), E: wurthglf@emirates.net.ae - www.wurth.ae

12- Approvals

7.5.3. ALUMINIUM COMPOSITE PANEL (ACP)

Required tests and classifications	
EN 13501-1, A2-s1-d0 (table 1.14.a)	Thickness in mm: 4mm
EN 13501-1, B-s1-d0 (table 1.14.a)	Brand Name: Alucopanel A2
ASTM D1929, passes	Supplier Name: Alucopanel Middle East LLC
BS 8414, passes	Test Standard / Classification: EN 13501-1 / A2–s1-d0
NFPA 285, passes	Test Standard / Classification: ASTM D1929 / Pass
FM 4881, passes	Test Standard/ Classification: NFPA 285 / Pass
ISO 13785-2	DCD CoC Number: TBW0300135.3 & TBW0300649
	DCD licence validity: from 03/01/2021 to 19/01/2024
	DCD Approved: M131

7.5.4. CLADDING INSULATION

Required tests and classifications	
EN 13501-1, A1 non-combustible	Thickness in mm: 50mm
BS 476-4, non-combustible	Density in Kg/m^3: 36kg/m3
ISO 1182, non-combustible	Brand name: Façade Slab 32 Ultimate
ASTM E 119, fire rated	Supplier name: Knauf Exeed Insulation LLC
UL 263, fire rated	Test Standard: EN13501-1
EN 1364-1, fire rated	test classification: A2-s1-d0
	DCD CoC Number: TBW0300218
	DCD licence validity: from 20/09/2021 to 22/11/2023
	DCD Approved: SATNA0000090646-2017

7.5.5. SEALANTS FOR CLADDING PANEL

Required tests and classifications	
ASTM 2307, passes	Brand name: Weather Sealant W-FR 0893303016
EN 1364-3, passes	Supplier name: Wurth Gulf FZE
EN 1366-4, passes	Test Standard: BS EN1366-4
	Test classification: Pass
	DCD CoC Number: MPA-BS_Certificate_Wuerth_Z-077
	DCD licence validity: from 20/06/2021 to 16/06/2025
	DCD Approved: LRTNA0000212241-2021

7.5.6. CAVITY BARRIER

Required tests and classifications	
NFPA 285, passes	Brand Name: Siderise CW-FS120
	Supplier Name: General International
	Test Standard: NFPA 285
	Test Classification: Pass
	DCD CoC Number: CF563
	DCD licence validity: from 01/10/2022 to 19/07/2023
	DCD Approved: LRTNA0000000061-2010

THIS APPROVAL IS ONLY FOR PROJECT SPECIFIC FAÇADE SUBMISSION (966R0SH)
PLOT NUMBER: 3561110, DUBAI
REPORT REFERENCE: EFRC-DXBQN/KF/867 DT. 08MAR2023
NUMBER OF PAGES IN REPORT: 53

CERTIFICATE OF CONFIRMATION OF HAZARDOUS MATERIAL ELIMINATION

We as Würth Gulf and under our sole responsibility herewith confirm that our below mentioned product according to the elimination of hazardous material complies as follows:

Art. #	Description	Asbestos Level	Chromated Copper Arsenate (CCA)	Formaldehyde
0893 301016	Weather Sealant W-FR	Free Of Asbestos	Free of CCA	Free of Formaldehyde

We trust to have been of service with this confirmation and remain,

With kindest regards,



Product Department
Würth Gulf FZE

Plot # S61303, P.O.Box: 17036, Jebel Ali, Dubai - U.A.E. Tel: +971 (4) 8809 991, Fax: +971 (4) 8809 255
E-mail: wurthglf@emirates.net.ae Website: www.wurth.ae www.wurth.com

مواصلات الإمارات
Emirates Transport

التوراث انترناشونال
Altorath International

مؤسسة الإصلاح للمقاولات العامة
AL ESLAH GEN. CONT. EST.

Record Reference: ET-SH2-Civil –R68	Date23-06-2018
Project Name: EMIRATES TRANSPORT – AL SHAHAMA	

Material Submittal

Employer: Emirates Transport		
Consultant: Altorath International Consultant(AIC)	Contractor: Al ESLAH GENERAL CONTRACTING	
Material Submittal No:68	Rev No: 0	Date23-06-2018

☐ Discipline ■ Civil ☐ Architecture ☐ Mechanical ☐ Electrical ☐ Others

Item Description:	WURTH CLADDING SEALANT
Specs. / BOQ / Drwg. Reference	Div 07- Cladding works
Material Specified:	Joint Sealant (W-FR-ART. 0893 30 10 16)
Material Proposed:	WURTH (joint Sealant)
Manufacturer Supplier	WURTH (Al Eslah)
Reason for Alternative:	
Remarks:	

List of Enclosure

- ☐ Vendor's Technical Literature
- ☐ Compliance Statement
- ☐ Previous Test Results
- ☐ Copy of the Related Specs.
- ☐ Samples
- ☐ List of Previous Projects Done
- ☐ Others (Specify):

Al Eslah Gen. Cont. Est.
Emirates Transport Project
Construction of Shahama Station
Abu Dhabi

Contractor Signature:

Discipline Engineer:	QA/ QC	HSE	MEP	Construction Manager:

Received By | Date

The Engineer:
☐ A- Approved ☑ B- Approved with Comments ☐ C- Revise and Resubmit ☐ D- Rejected ☐ E-Approved with comments and Resubmit

Comments:
1* material approved as 2 Hrs Fire rated Sealant according to the approval certificate of compliance by civil defense
2* contractor has to obtain Abu Dhabi civil defense for material, as per the Regulation of ADCD.
3* till getting the approval of ADCD, the work will be under contractor Responsibility.
4* Delivery Notes by the name of supplier.

Reviewed By & Signature: (The Engineer) | Approved By & Signature: (The Engineer)

Received By (The Contractor) | Date 28-6-2018

Distribution:
☐ Employer ☐ ER ☐ Consultant ☐ Contractor

DUBAI WORLD TRADE CENTRE

中建中東有限責任公司
CHINA STATE CONSTRUCTION ENGRG. CORP. (MIDDLE EAST)(L.L.C)

KEO

SITE TRANSMITTAL of Shop Drawings, Materials, etc.

TRANSMITTAL NO : CSC/EV-P7/TS/00117

REV : 01

To: KEO International Consultants

PROJECT	DIV/PACKAGE	OWNER	CONTRACTOR
EXPO VILLAGE	CP07	DWTC	CSCEC

WE ARE SENDING HEREWITH THE DRAWINGS / DOCUMENTS / SAMPLES LISTED BELOW FOR YOUR REVIEW.

ITEM NO.	REF. No.	GENERAL DESCRIPTION AND REVISION DETAILS	TYPE (i)	COPIES	ACTION CODE (ii)
1	PN1502-CP07-PQ-ST-CSC-00117	Prequalification for M/S Wurth Gulf for Manufacture and Supply of Joint Sealant	OT	1	B

We certify that the items submitted herewith have been reviewed in detail and are in strict conformance with the Contract Drawings and Specifications except as otherwise stated.

CONTRACTOR :

DATE: 18-Jun-18

RECEIVED BY KEO :

DATE:

KEO'S REMARKS :

No objection subject to comply with project specifications, DM requirements, and Manufacturer recommendations.

Corrections or comments made relative to submittals during this review does not relieve the contractor from compliance with the requirements of his Contract, drawings and specifications. This review is only in respect of general conformance with the design intent of the project and general compliance with the information given in the Contract documents. The contractor remains responsible, among other things, for the design of the project or such parts of the project he has design responsibility for (if design forms part of the Contract), for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner, all in accordance with the Contract.

KEO CM / RE

DATE:

RECEIVED BY CONTRACTOR :

DATE:

(i) TYPE:
- SD: Shop Drawings
- SM: Sample
- GT: Guarantee
- MD: Manufacturer's Data
- CT: Certificates
- OT: Others

(ii) ACTION CODE:
- A: No objection
- B: No objection subject to incorporation of all comments as noted
- C: Rejected, to be resubmitted

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DUBAI SOUTH MALL
arabtec CIRCULATIONS

NAME	Act	Info	Reply
Sr. PM			
Sr. QM			
PM			
QS			
TE			
PLANNING			
QA/QC			
STRUC.			
ARCH.			
ACCOUNTS			
PROCUREMENT			
SAFETY			
STORE			

The Engineer:	The Employer:	The Project Manager:	The Contractor:
ATKINS	EMAAR	JLL	arabtec Construction

Project: 5153328 - Dubai South Mall

Alternative Material Submittal

Ref. No. AMS/MC/00160
Rev. No. 01

Originator of Submittal : Arabtec Cons.LLC/Ms. Wurth FR Acrylic — *Date:* 14/01/2018

Authorised Sign : — *Reqd. By:* 04/02/2018

14/1/18

Material Detail

Item Description	*Fire Resistant Acrylic Sealant*
Specs. Reference	*NIL*
BOQ Reference	*NIL*
Drwg. Reference	*As per 5153060-ATK-M1-DR-A-19033 Rev. A*
Material Specified	**As per Drawing attached**
Material Proposed	**As per item Description**
Manufacturer / Supplier	**M/s. Wurth Fire Acrylic**
Reason for Alternative	**As Back up Supplier**
Remarks	**Refer Drawing Attached**

List of Enclosure
(Tick the Related Box)

- ☐ Vendor's Technical Literature
- ☐ Compliance Statement
- ☐ Previous Test Results
- ☐ Copy of the Related Specs.
- ☑ Sample with Sample Tag
- ☐ List of Previous Projects Done
- ☑ Others (Specify):

Contractor Statement: We certify that the material submitted herewith has been reviewed in details and is in compliance with the contract drawings and specifications except as otherwise stated hereabove.

Contractor Sign: — *Date:* 14/01/2018

RECEIVED 14 JAN 2018 ATKINS SITE OFFICE B 5153328/R

ATKINS Received Sign: — *Date:*

Ref.No 5153328/R11- 01461

ATKINS Engineer's Comments:

- NO OBJECTION
- FIRE RATING TO BE AS PER FIRE RATE DRAWING OR SPECIFICATION
- MOCK UP TO BE DONE

Reviewed By: SSV — *Date:* 28.1.18

ATKINS Resident Engineer's Comments

ATKINS 5153328 APPROVAL STATUS CODE A Approved Sig. Date

- ☑ Code A - Approved
- ☐ Code B - Approved As Noted, Resubmit
- ☐ Code C - Not Approved, Resubmit
- ☐ Code D - Information, Record
- ☐ Code E - Incompleted, Resubmit

ATKINS RE Sign: Ayar Salih — *Date:* 29/1

Ref.No 5153328/R10- 01448

Contractor Received Sign: — *Date:*

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the contract requirement and specifications. This check is only for review of general conformance with the design concept of the project and general complience with the information given in the contract documents.

RECEIVED 29 JAN 2018 DUBAI SOUTH MALL arabtec Construction

SUB-000769

130

Form 12.1

PROJECT NO.: D17007-0200S **PROJECT NAME :** IMPZ DISTRICT COOLING PLANT MAIN PLANT WORKS	**EMPLOYER:** EMPOWER ENERGY SOLUTIONS	**Request No.** IMPZ/AGE/DAR/C/SAM/125 Rev. 00
ENGINEER : dar Dar Al-Handasah Consultants (Shair and Partners)	**CONTRACTOR :** AG ENGINEERING	**Date** 09-Jul-20

SUBMITTAL FOR APPROVAL OF MATERIALS

1. **MATERIAL DESCRIPTION** (one item only on this form)

Material Submittal of WURTH Weather Sealant Sealant W-FR Black Colour for ACP Panel along with Sample

Area of Application : All ACP Area

Drawing Ref. : B.O.Q. Ref. No. :

Specification Ref. : N/A Standards :

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

The works involve the following trades (Tick more than one if required) :

☐ Surveying ☑ Architectural ☐ Civil ☐ Electrical ☐ Mechanical ☐ Others (specify) ____

RECEIVED 11 JUL 2020 DAR AL HANDASAH D17007-0200S M.W.

2. **MANUFACTURER/SUPPLIER :**

Company Name : **M/s.Wurth Gulf FZE**

Address : Dubai, UAE

Local Agent : **M/s.Wurth Gulf FZE /M/s.Al Cornish Aluminium Cont.Ind.LLC**

3. **DELIVERY :**

Country of Origin : **Germany**

Availability ○ Locally Manufactured ◉ Overseas

Delivery : Ex-works/ Total Duration [ ] [ ]

Estimated Time of Arrival on Site [ ]

Program : Date Material Required on Site [ ]

Latest Date for Order [ ]

RECEIVED 14 JUL 2020 CHICAGO PROJECT-IMPZ JOB # 159

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : kumar Dhanapal Signature _____

AG ENGINEERING L.L.C. P.O. Box: 282383 DISTRICT COOLING PLANT Dubai

4. **ENGINEER'S REPRESENTATIVE'S COMMENTS :**

- Refer and comply to our attached comments sheet
- Color to be submitted separately for approval.

☐ Approved
☑ Approved As Noted
☐ Revised and Resubmit
☐ Rejected
☐ Sample Required
☐ Test Required
☐ Additional Info Required
☐ Manufacturer's Guarantee Req

13/7/2020

Signature: _____ DATE: 13/7/20

Client:

☐ Approved
☐ Approved As Noted
☐ Revised and Resubmit
☐ Rejected

RECEIVED 13 JUL 2020 AG ENGINEERING IMPZ DISTRICT COOLING PLANT GO - 715002

Signature: _____ DATE: / /

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

AM-1

الساحل للاستشارات الهندسية
Sahil Engineering Consultants

8th April, 2021
Ref: SEC/PRJ/1927/136-21

M/S. ENERVO CONTRACTING & GENERAL MAINTENANCE
PO Box 26180, Abu Dhabi
Tel: 025530557

PROJECT: **REFURBISHMENT & REHABILITATION OF HEAD OFFICE OF M/S KHALIFA BIN ZAYED AL NAHYAN FOUNDATION PLOT P5, SECTOR W-8, ABU DHABI ISLAND, ABU DHABI**

SUBJECT: **WEATHER SEALANT W-FR – ALTERNATIVE MATERIAL SUBMITTAL**

Reference to your letter no. ECGM-KBZ-L-21-04-34-C21 dated 07-04-2021 concerning to the above subject, we **approved as noted** your material submittal for **Weather Sealant W-FR Art # 0893 301016** from **M/S. WURTH GULF** for the mentioned project.

This approval is subject to: -

1. Final approval of Abu Dhabi Civil Defense for materials, shop drawings and inspection.
2. All letters, certificates and licenses shall be valid till final approval of Civil Defense of the inspection.

This is for your information and necessary action.

Regards,

MAIN OFFICE ABU DABI
SAHIL ENGINEERING CONSULTANTS

OBAID A. HASHIM
GENEAL MANAGER

Cc: Khalifa Bin Zayed Al Nahyan Foundation

ص.ب: ٤٦١٧٢، أبوظبي، الإمارات العربية المتحدة، تلفون : ٦٤٤٦٧٣٤ (٩٧١٢+)، فاكس : ٦٤٤٧٥٣٧ (٢ ٩٧١ +)
Post Box : 46172, Abu Dhabi, U.A.E., Phone : (+9712) 6446734, Fax : (+9712) 6447537
E-mail : sahil@sahil.ae, Website : www.sahil.ae

KHALIFA BIN ZAYED AL NAHYAN FOUNDATION

مؤسسة خليفة بن زايد آل نهيان للأعمال الإنسانية

Sahil Engineering Consultants

ENERVO Cont. & Gen. Maint. L.L.C

PROJECT NAME :	**REFURBISHMENT OF HEAD OFFICE (Ground, 3 floors and Roof Services)** **OWNER: KHALIFA BIN ZAYED AL NAHYAN FOUNDATION** **PLOT No: P-5, SECTOR: W-8, ABU DHABI UAE.**

APPROVAL SUBMITTAL

SUBMITTAL NO.	EGCM-117-SM-C21	1st submission ■ 2nd submission ☐ 3rd submission ☐	Submission date: 07-April-2021	Replied on:	APPROVAL STATUS: A ☐ B ☐ C ☐

DISCIPLINE:

Architectural ☐ Civil / Structure ■ Mechanical ☐ Electrical ☐ Plumbing ☐ Others ☐

MAIN CONTRACTOR:	SUBCONTRACTOR/SUPPLIER:
M/s ENERVO Contracting & General Maintenace LLC	M/s. **Wurth Gulf**

TYPE OF SUBMITTAL

SHOP DRAWING ☐ MATERIAL ■ SUBCONTRACTOR ☐ INSPECTION ☐

DESCRIPTION:

Material Submittal for Weather sealant W-FR - Alternative

☐ EQUAL/APPROVED	☐ SAMPLE	☐ LEAFLETS	☐ CORRESPONDENCE
☐ SPECIFIED	☐ CATALOGS	■ TECH./DATA SEET	☐ LETTER / FAX

SUBMISSION INTENDED FOR	SUBMITTED BY: NAME/DESIGNATION	SIGNATURE
■ APPROVAL / COMMENTS ☐ AS PER YOUR REQUEST ☐ YOUR INFORMATION /RECORDS ☐ YOUR NECESSARY ACTION	Mr E. Median Nazih Bejboj Projects Manager	P.O.Box:26180 Abu Dhabi - U.A.E Cont. & Gen. Maint L.L.C

CONSULTANT COMMENTS:

As mentioned in the covering letter

MAIN OFFICE ABU DABI SAHIL ENGINEERING CONSULTANTS

CONSULTANT APPROVAL STATUS

☐ A- APPROVED WITH NO OBJECTION (ANO)

☑ B- APPROVED AS NOTED (AAN)

☐ C- NOT APPROVED (NA)

CONSULTANT (Signature):

NAME/TITLE:

APPROVED / ISSUED (Date): 08-04-2021

13- Draft Warranty

Date: Oct 11, 2024

DRAFT WARRANTY CERTIFICATE

CLIENT: spherical dome

PRODUCT: WEATHER SEALANT Fire Rated (WURTH)

Manufacturer: Wurth Gulf FZE

Supplier: Wurth Gulf FZE

Draft of Warranty: Effective from the issue date of final taking-over certificate

Duration of Warranty: 15 Years from TOC

Guarantee / Warranty "Coverage and Description":

We as Würth Gulf confirm a 15-year warranty on material specifications and against material defects for our product mentioned above, providing the material is applied in accordance with ASTM 920C and EN 1366-4/1363-1 up to 240 minutes and the instructions provided by us. This warranty is conditional to application in accordance with our technical instructions and is restricted to replacement of defective material against the original invoice cost. Würth Gulf does not take responsibility for any defects caused by wrong application during installation or when material is applied on non-conforming substrates.

Name:

Designation: Product Dept. / Chemicals

Date: 11.10.2024

Company Seal

وورث جلف م.م.ح
WÜRTH GULF FZE
P.O.Box: 17036
Product Department

DRAFT