



**TECHNICAL CHEMICALS**

## WEATHERPROOFING SEALANT PRO CLASS 50

**Professional applications in cladding and curtain walls.**  
**is a durable neutral-curing silicone sealant with a high movement capability and good adhesion to a wide range of substrates.**  
**It is particularly suited as a weather seal, curtain walling and windows.**

### Features

- Single-component, deoxime neutral curing, medium/high modulus.
- High tensile strength, high adhesive ability.
- Excellent unprimed adhesion to most common building substrates.
- Excellent weatherproof, age resistance.
- UV and Ozone stable.

### Note

Surface temperature of the substrate should not exceed 45 degree centigrade.

### Packaging Information

Unipack	300ml
Cartridge	600ml



Art.No	Color/RAL	Contents
0892 050 300	Weatherproofing Sealant Pro RAL9017-BLACK	300ml/457g
0892 050 301	Weatherproofing Sealant Pro RAL9016-WHITE	300ml/457g
0892 050 302	Weatherproofing Sealant Pro RAL7035-CCRGREY	300ml/457g
0892 050 600	Weatherproofing Sealant Pro RAL9017-BLACK	600ml/831g
0892 050 601	Weatherproofing Sealant Pro RAL9016-WHITE	600ml/831g



Chemical base	1-component silicone
Color (CQP001-1)	Various colors available A
Cure mechanism	Moisture-curing
Cure type	Neutral
Density (uncured)	1.40 kg/l
Non-sag properties (CQP061-4 / ISO 7390)	NS Type
Application temperature, ambient	C° 5 - 45
Skin time (CQP019-1)	5 minutes <sup>B</sup>
Tack free time (CQP019-3)	140 minutes <sup>B</sup>
Curing speed (CQP049-1)	2mm/24h
Shore A hardness (CQP023-1 / ISO 48-4)	25 C
Tensile strength (CQP036-1 / ISO 527)	1.5 MPa
100 % modulus (CQP036-1 / ISO 527)	0.4 MPa
Elongation at break (CQP036-1 / ISO 527)	600 %
Tear propagation resistance (CQP045-1 / ISO 34)	8.0 N/mm
Service temperature	-40 - 150 °C
Shelf life	unipack 15 months <sup>D</sup> cartridge 12 months <sup>D</sup>

### Main Function

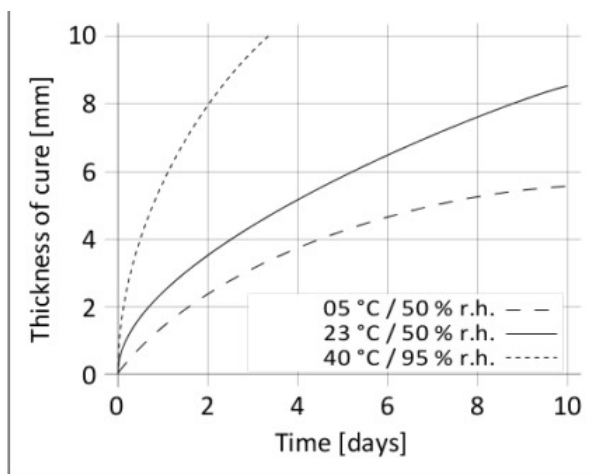
- Meets requirements of GB/T 14683 and ASTM C 920 for Type S, Grade NS, Class 50 (movement capability  $\pm 50$  %).
- Very good UV and weathering resistance.
- Adheres well to many substrates including glass, metals, coated and painted metals, plastics, and wood.
- Conformity with LEED v4 EQc 2: Low-Emitting Materials.

## WEATHERPROOFING SEALANT PRO CLASS 50

### Cure Mechanism

0892050xxx cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower, and the curing reaction proceeds somewhat slower (see diagram 1).

The curing speed of the reaction depends mainly on the relative humidity and temperature. Material temperature above 50 °C could lead to bubble formation and has to be avoided.



### Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological, and other safety-related data.

### Application

Can be used for weather proofing sealing applications where durability under severe conditions is required.

It is particularly suited as a weather seal for structural glazing, curtain walling and windows.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility. The optimum temperature for substrate and sealant is between 15 °C and 45 °C. Can be processed with manual, pneumatic or electric driven piston guns. Joints must be properly dimensioned.

### Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant. When tooling freshly applied 0892050xxx press the sealant to the joint flanks to get a good wetting of the bonding surface. No tooling agents to be used.

### Removal

Uncured 0892050xxx can be removed from tools and equipment with suitable solvents. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using suitable industrial hand cleaner and water.

Do not use solvents on skin.

### Overpainting

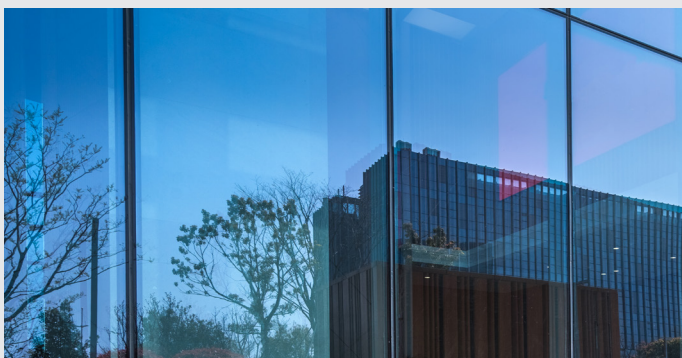
0892050xxx cannot be overpainted.

### Safety Notice

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, Unipack toxicological, and other safety-related data.

### Basis of Product Data

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.



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## MANUAL SAUC/CARTRIDGE GUN-600ML

Manual pressure application gun for bag sealants

- Light application of force and uniform pressing out of sealant bag
- Immediate power transmission to push rod
- Easy to clean
- By simply screwing off white bag piston, also suitable for processing 600 mL cartridges



600ml    **Art.No. 0891 400601**

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## MANUAL CARTRIDGE GUN-310ML

Sturdy design, semi-open, made of sheet steel with feeding mechanism.

- Immediate power transmission to the push rod possible
- Great value for money

### Application area

For applications with 310 ml cartridges



310ml    **Art.No. 0891 318**

## SILICONE ACETATE - ANTI FUNGUS

This is an acetate-based sealant with permanent elasticity and excellent adhesion to most silicate materials (aluminium, ceramics, glass, glazed surfaces, profiled glass, klinker and porcelain).

It is also suitable for use in rooms where mould can form.

- It prevents mould to form on silicone due to special admixture.
- Does not slump in vertical joints.
- Excellent adhesion to aluminium, ceramics, glass, glazed surfaces, profiled glass, klinker and porcelain.
- Good mechanical properties.
- Resistant to various chemicals.
- Not suitable for sealing tinned sheet.
- Releases acetic acid during hardening.
- Wide selection of colours (see colour chart).

### Application

For sealing joints in rooms where mould can form (bathrooms and basements), for sealing silicate materials and less stressed joints, and for profiled glass mounting.

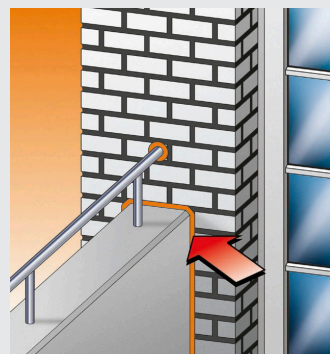
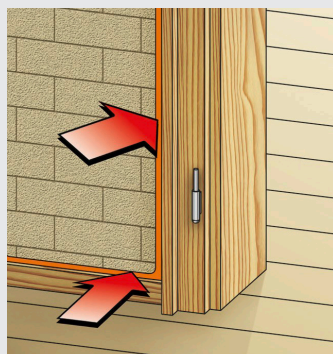
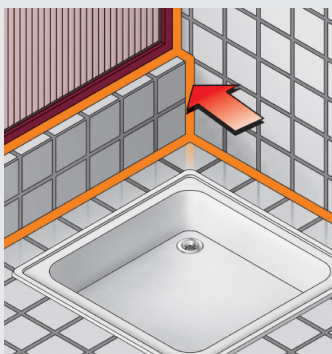
**Storage:** 12 months in unopened packaging in a cool and dry storage place at temperatures under 27°C

**Tests and Certificates:** - EN 15651-3:2012 S.



Technical Data	
Chemical basis	acetic acid silicone
Specific gravity	940 ± 10 kg/m <sup>3</sup>
Skin formation time	23°C/50% rel. humid. 20 min
Hardening time	23°C/50% rel. humid. 3 mm/day
Elongation at Break	300–500% (ISO 8339)
Tensile Strength	Greater Than 1.2 MPa (ISO 37)
Elongation at break	Greater than 350% (ISO 37)
Hardness	Shore A 10-20 (ISO 868)
Application Temperature	Between +5 °C - 45 °C
Temperature resistance	between -40 °C and +150 °C

Art.No	Color/RAL	Contents	P.Qty
<b>0892 287001</b>	Transparent	280 ml	20
<b>0892 287002</b>	White	280 ml	
<b>0892 287006</b>	Black	280 ml	
<b>0892 287092</b>	Grey	280 ml	



## ACRYLIC SEALANT

**Sealing of low and medium movement joints between various construction materials (wood, concrete, brick etc., sealing joints between windows, walls, doors etc.,) filling cracks in walls and on ceilings. Can be painted over once cured.**

**Instructions:** The joints must be clean and free from dust, grease and rust. No primer is required for non-porous surfaces. On porous surfaces such as concrete, stone, cement and plaster. A primer (mixture of one part acrylic sealant and 4-5 parts of water) should be applied. Min/max joint width must be 5mm/25mm. The recommended joint depth/width ratio is 1 to 2. Application temperature is between +5 °C and +40 °C. Immediately after the application, smooth the sealant at once with a joint smoother. Excess sealant can be removed with a wet cloth. Keep the sealed joint dry at least for two hours. Cured sealant can be removed mechanically not suitable for permanent water storage.

- Highly elastic
- Broad adhesive range on a range of standard construction surfaces
- Building material class B2 according to DIN 4102
- Silicone-free
- Resistant to ageing, weathering and UV
- Odourless



Technical Data	
Chemical basis	Acrylic dispersion
pH Value	7-8
Specific gravity	1,65 ± 0,03 gr/cm <sup>3</sup> (ASTM D792)
Tack free time	50 ± 20min (23°C and 50% R.H) (ASTM C679)
Skin forming	10 min
Curing rate	1 to 2mm/day (23°C and 50% R.H)
Elongation at break	≥ 300% (ASTM D412)
Max. permanent motion	5%
Temperature resistance	-10°C to 80°C
Application temperature	+5°C to 40°C
Hardness (shore A)	50

## BOND SEAL-KD

Professional-grade, one-component polyurethane adhesive and sealant. It is elastic, moisture-curing, non-sag, and suitable for a wide range of bonding and sealing applications across construction, automotive, marine, and industrial sectors. The product forms a durable, elastic rubber-like joint with excellent resistance to ageing and weathering.

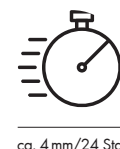
- Bonds and seals simultaneously
- Permanently elastic ( $\pm 25\%$  joint movement)
- Easy application and smooth tooling
- Non-sag formula with high thixotropy
- Excellent resistance to vibration, shocks and impacts
- Good sound and vibration dampening
- Primer less adhesion on most common surfaces

### Application Areas

- Elastic bonding and sealing between dissimilar materials
- Joints in construction (vertical and horizontal)
- Automotive and marine bodywork
- Sealing of gutters and metal roofs
- Replacing rivets and mechanical fasteners
- Assembly applications in manufacturing and fabrication

Technical Data	
Appearance	Non-sag thixotropic paste
Chemical nature	Polyurethane
Curing mechanism	Moisture-curing
Curing through volume	2.3mm/24h at 23°C and 50% RH
Shore A hardness	38 N/mm <sup>2</sup> (DIN 53505)
Density	1.32 g/cm <sup>3</sup> at 23°C and 50% RH
Tack-free time	50 min at 23°C and 50% RH
Elastic modulus at 100%	0.7 N/mm <sup>2</sup> (ISO 37 DIN 53504)
Tensile strength	1.7 N/mm <sup>2</sup> (ISO 37 DIN 53504)
Elongation at break	ca. 570 % (ISO 37 DIN 53504)
Joint movement capability	$\pm 25\%$ of joint width (EN 15651/1; ISO 11600)
Application temperature	from +5 to +40 °C
Temperature resistance (°C)	-40 to +90, with brief points at +120

Art.No	Color/RAL	Contents	P.Qty
<b>0890 1001</b>	White	300 ml	24
<b>0890 1002</b>	Grey	300 ml	
<b>0890 1003</b>	Black	300 ml	
<b>0890 1006</b>	Sand beige	300 ml	



ca. 4 mm/24 Std.



dauerhaft 90°C  
8 Stunden bis 120°C



PU  
TECHNOLOGY



45 - 60 Min.



## BOND SEAL-KD

### Application Instructions:

- Ensure all surfaces are clean, dry, and free from grease or dust.
- Primer is generally not required but recommended for porous or special substrates. Always test adhesion in case of doubt.
- Use a closed-cell backing rod in movement joints to prevent adhesion to the base.
- Apply product at ambient temperature between +15°C and +25°C for best handling.
- Extrude firmly to ensure contact with joint sides and avoid air entrapment.
- Tool and smooth the surface before skin formation.
- Avoid curing in contact with silicone sealants or alcohol-based solvents.
- Over-paintable once cured. Compatibility with paint must be tested.
- Provide temporary support or clamping for bonding applications if required.

### Cleaning and Safety

- Clean tools immediately with acetone or approved solvent before curing.
- Hardened material can only be removed mechanically.
- Use protective gloves (latex, rubber or polyethylene).
- Avoid direct skin contact. In case of contact, wash thoroughly with soap and water.
- Refer to the product Material Safety Data Sheet (MSDS) before use.

### Storage and Shelf life

Shelf life: 12 months from production date

- Store between +10°C and +25°C in a dry, cool, and shaded environment
- Avoid exposure to direct sunlight, humidity, and temperatures above 25°C

### Important Note:

The information contained in this technical data sheet reflects our current knowledge and experience. It does not constitute a legally binding assurance of product properties or suitability for specific applications. It is the responsibility of the user to test the product for the intended application. Würth reserves the right to modify the product specification without prior notice.

Packaging Type	Volume	Units / Box
Aluminum Cartridge	310 ml	12 pcs



## 1K B1 FIRE RESISTANCE FOAM 750ML

**WARRINGTON fire certified for firestopping at linear joints.**

**Tested and certified against concrete, mortar, masonry, steel, aluminium, soft wood and hard wood substrates.**

**Sound insulation 61db rw bothsides  $\geq 50\text{mm}$  &  $\leq 30\text{mm}$  width**

### Properties

Joint Foam Fire Resistance plus – fire resistance Hand held foam, has good heat, sound insulation and outstanding adhesion on most of building materials such as Wood, Concrete, Metal, Aluminum, Bricks, UPVC but not polyethylene, silicon and Teflon.

### Features

- High yield, approximately 40L.
- High thermal and acoustic insulation.
- Cellular structure: closed cells.
- High extrusion ability
- Building material class B1 (DIN 4102).
- Resistance up to 4 hours according to EN13501 and BS 476 part 20.
- Resists against ageing, temperature, many chemical agents, does not resist against UV-radiation.
- HCFC and CFC

### Main uses

Fire, thermal and acoustical insulation, filling of cavities and sealing of building joints, hardly flammable if applied on solid and mineral based materials, or between metallic materials, fixing and mounting of (fire-proof doors and windows, safes,...) or wherever a great fire resistance is needed.

### Storage

- Use before end of written expiry date on aerosol can, store in cool and dry conditions, can must be vertical position.
- Shelflife is 12 month if stored between 10°C - 20°C, higher storage temperature shorten the product shelf life.



Technical Data	
Volume	40 - 45L (free foamed)
Specific gravity	22 - 26 kg/m <sup>3</sup>
Application temperature	min. +5°C (surface), to 45°C
Application temperature	20 - 25°C (can)
Tack-free time	5 - 10 min (18°C/60% RH)
Cutting time	20 - 25 min (Ø=3 cm, 18°C/60% RH)
Hardening time	1.5 - 5 hours, depending on temp. and humidity
Temperature resistance	-40°C to +90°C
Dimensional stability	max. -1%
Water absorption	max. 1 vol.% (DIN 53428)
Compression strength	0.04 - 0.05 MPa (DIN 53421)
Tensile strength	0.07 - 0.08 MPa (DIN 53455)
Elongation at break	15 - 20% (DIN 53455)
Thermal conductivity	0.029 W/(m·K) at 20°C (DIN 52612)
Flammability class	B1 (DIN 4102, part 1; BS 476, part 20)
VOC	170.7 g/l



**CF 5585**  
**Valid to May 2025**

## 1K-B3 ASSEMBLY FOAM-750 ML

### General Recommendations

Cured PU foam must be protected from UV-radiation by painting or applying a top layer of sealant (silicon, MS polymer, etc.)

### Health & Safety Recommendations

- Apply the usual industrial hygiene.
- Wear gloves and safety goggles.
- Remove cured foam by mechanical means only, never burn away!

### Method of Application

- Surface must be clean and free of all grease, dust, and moveable parts.
- Moisture the surface in order to improve curing and cellular structure.
- Shake can well before use (at least 20 times).
- Spray the foam; make sure the can is in an upright position.

### Storage

Store can vertical in cold and dry place with temperature range from 5°C up to 25°C.

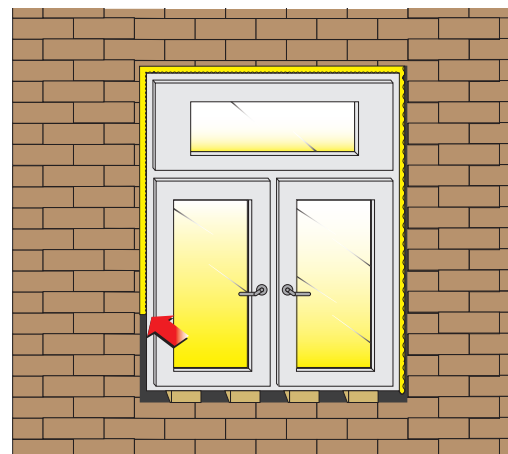
### Product Description

Is one component polyurethane expansion foam ,multi-purpose gap filling, sealing, bonding and insulating with outstanding adhesion to most substrates (except Teflon, PE, & PP), Increase thermal and sound insulation, environment friendly, CFC free, HCFC free, High level of stability (free of shrinkage or post expansion effects).

### Areas of Application

- Installing, sealing, or insulating window, door, and other construction frames of various materials (wood, plastic, metal).
- Creating a soundproof layer for various applications.
- Improves thermal isolation in cooling systems.
- Filling cracks and holes in floors and walls.
- Several applications in Roof Constructions:
- Filling inter-connection spaces, sealing openings, and fixing front panel, corrugated steel, & roof tiles.
- Connecting insulation materials, as well as creating Insulation for:
- Electrical outlets, hot & cold water pipes, bath tubs, electrical heaters.
- Large cracks, holes, joints, & gaps around pipe entries.
- Window type air conditioning ventilation & A/C ducts.

Technical Data	
Chemical basis	Polyurethane Prepolymer
Can temperature	Min. +5°C
Application-surface and ambient temperature	+5°C to +35°C
Non-sticky surface	About 10 Minutes
Building material class (DIN 4102 Part 1)	B3
Shelf life	12 Months (at +5°C to +25°C)



## FIRE PROTECTION SEAL - ACRYLIC

### Suitable For

For fire protection sealing of linear joints in fire rated walls and floors as well as fire protection of building service penetrations. Suitable for most common construction materials such as concrete, brick and gypsum board

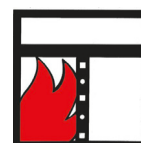
### Properties

- Acrylic emulsion
- Fire rated in both horizontal and vertical joints and service penetrations
- Joint movement capability 12.5%
- Skin Formation time 20 minutes depending on temperature and humidity
- Tack free time 40 minutes
- For use in joints up to 50 mm wide
- Excellent slump resistance
- Shelf Life 18 months under cool and dry conditions, (5 to 30 degrees Celsius)
- Fast cure, tack free within one hour
- Halogen Free
- Paintable
- Reduces sound transmission in joints

### Technical Data

- Fire resistance periods up to 240 minutes according to BS476: Part 20 fire resistance classification up to EL 120 according to EN 13501-2. Please see ETA 16/0235 and ETA 16/0236.
- Resistant to moisture and water splashes, neutral odour, UV resistant, free of halogen and silicone compounds
- Airborne sound insulation  $R_w (C, C_{tr}) = 40 (-3; -8 \text{ dB})$  according to BS EN ISO 140-3:1995 / EN ISO 717-1:1997
- Classification Sealant ISO 11600 - F - 7.5P
- Application temperature +5 to +40 degrees Celsius
- Temperature resistance -15 to +75 degrees Celsius
- UL EC Certificate of constancy of performance 0843-CPR-0304 according to regulation 305/2011/EU

Technical Data	
Contents	300 ml
Chemical basis	Acrylate
Colour	White
Building material class	F - Of high flammability
Density	1.65 g/cm <sup>3</sup>
Min. temperature resistance (hardened)	-15 °C
Max. temperature resistance (hardened)	75 °C
Min. skin-formation time	30 min
Shore A hardness	60
Product weight (per item)	505 g
Shelf life from production	24 Months



White

## STAINLESS STEEL CARE PRODUCT-SPRAY-400ML

### Cleaning care emulsion for metallic surfaces

#### Nurturing, creamy emulsion with cleaning effect

- Dirt, cleaning and wiping marks and greasy, oily finger prints are thoroughly removed
- Can be used on vertical surfaces

#### Application

First remove coarse dirt with stainless steel power cleaner. Spray onto the dry surface; polish with a soft cloth and wipe off thoroughly.

#### Notice

Do not spray on hot surfaces or use in direct sunlight.

The usage instructions are recommendations based on the tests we have conducted and based on our experience; carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.



Technical Data	
Chemical basis	Medic white oil with synthetic oils
Smell/fragrance	Characteristic
Colour	White
pH value	10.2
Density	0.855 g/cm <sup>3</sup>
AOX-free	Yes
Silicone-free	Yes
Bio-degradable	Yes
Shelf life from production	24 Month



## WELDING SPRAY-PERFECT- 400ML

**Biological welding protection spray for aluminium, structural steel, non-ferrous base metals, stainless steels and welding torch nozzles.**

**Prevents burning-on of weld splatter on metals, VA materials and on welding torch nozzles**

Contributes towards optimum welding work. Starting points for corrosion are prevented

**Harmless when subsequently galvanising and painting**

- Disruptive crack products are avoided due to the minimal proportion of organic substances.  
This allows welding residues to be removed effortlessly.
- Any subsequent galvanising or painting is then easily possible



## Application



## HIGH-STRENGTH SCREW RETAINER

### Tough removable screw retainer and sealing compound – single-handed dispensing system

- Can only be removed once heated up to > 250°C
- A 100 % seal is achieved - no additional securing parts are necessary
- Protects against corrosion due to friction and against rust
- Universal products with wide range of applications
- High resistance

#### DOS system:

- Practical one-handed operation thanks to the clever turn lock
- One hand always remains free.
- Continuously adjustable dispensing system
- Dispensing can be adjusted to suit the application, and to keep consumption and costs to a minimum.
- No residue material in dispensing neck
- Costs optimised thanks to emptying with virtually no remaining product

#### Application

For securing, fastening and sealing threaded connections such as bolts, stud bolts, nuts, threaded plugs, thread inserts, ball bearings and roller bearings, which do not normally have to be detached. The high-strength threadlocker is for use in the automotive and commercial vehicle industry, in metalworking and tool manufacturing, shipbuilding, mechanical engineering and engine construction, and electrical and electronics construction.



Technical Data	
Chemical basis	Dimethacrylic acid ester
Colour	Green fluorescent
Suitable for max. thread	M25
Min./max. viscosity /conditions	500-900 mPas / at 25°C, Brookfield RVT, spindle 2/20 rpm
Density/conditions	1.11 g/cm³ / in accordance with DIN EN ISO 2811-1
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-55 to 150 °C
Weight of content	50 g
Shelf life from production	18 Month / at room temperature



## ZINC SPRAY, PLUS, BRIGHT- 400M

### Outstanding long-time protection and optimum metal surface appearance.

Long-term protection and repair of metallic surfaces

Excellent corrosion protection

The metal is actively protected, even with minor damage

Accordance with **EN ISO 9227** NSS for a period of 500 hours

Excellent adhesive properties on bare metal

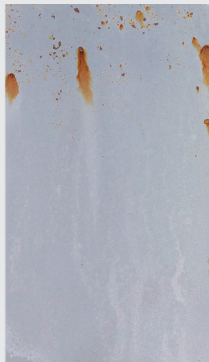
Excellent spot welding properties

Technical Data	
Chemical basis	Acrylic resin
Colour	Silver grey
Min. curing time	24 h
Fully hardening/curing conditions	20 °C
Resistance in salt-spray test	500 h
Max. temperature resistance	400 °C
Dust-drying time	10 min
Dry layer thickness (first back-and-forth motion)	20 µm
Conditions for dust-drying time	at 20 °C
Zinc content in the dry film	80 %
Coating thickness	20 µm
Recoat/Can be painted over	Conditional, preliminary testing required
Grip strength conditions	at 20 °C
Substrates with good adhesion	Ferrous metals, Zinc plated surfaces
Spot weldable	Yes
Cross-cut test conditions	in accordance with ISO 2409
Conditions for resistance in salt-spray test	in accordance with DIN EN ISO 9227
Shelf life from production	36 Month



### Application

#### Resistance in salt-spray test/Hours = 168



Zinc Spray



Competitive product

#### Resistance in salt-spray test/Hours = 500+



Zinc Spray



Competitive product

## RUST CONVERTER

### Environmentally friendly dispersion-based rust converter

Can be painted over

Can be painted over with all commercially available top-coat paint systems after 3 hours

Can be filled

Environmentally friendly, as dispersion-based

Reliably stops the corrosion process and provides an optimised application surface for additional paint work.

Rust converter penetrates into the rust, reacts with the rust and converts iron oxide into a stable, insoluble, blue-black, metal-organic complex.

### Application area

Vehicle construction, caravan construction, shipbuilding, metal and steel construction, tool manufacturing, bridge building, tank construction, pipeline construction, container construction, agriculture and forestry, municipal management, construction machinery etc.

### Instructions

The surface must be clean, dry and free from grease. Remove loose rust, paint and dirt using a wire brush, scraper or similar tool. Apply a thin and even coat with a brush or roller. Prevent runs. Paint over with water or solvent-based metal protective coatings between 3 and 48 hours after application. Maintain a three-hour reaction time. Mask off surfaces not to be treated.



Technical Data	
Contents	1000 ml
Colour	Cream
Shelf life from production	60 Month
Max. temperature resistance	120 °C
Can be varnished after	3 h

## MOVEMENT DETECTION PAINT

**Solvent-free locking, marking and sealing lacquer  
with good adhesion to virtually all materials  
High temperature resistance up to min. 145 °C**

Also suitable for outdoor use

### High insulation resistance

As a covering for electrically conductive parts

### High mechanical strength

But can still be removed

### No corrosion

**Good resistance to water, limited resistance to oil,  
petrol and diesel**

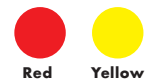
**Solvent and silicone-free**

**Practical accordion bottle**

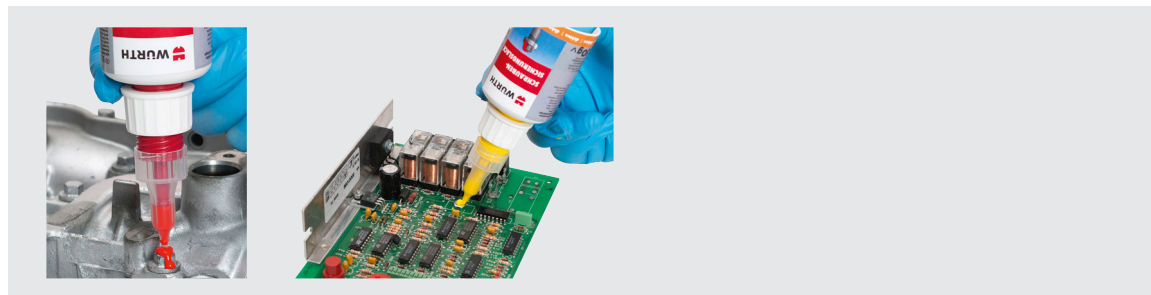
- Easy handling
- Better residue removal
- No clogging of the tip

### Application

The screw retainer varnish is suitable for visually checking all possible movements between connected adjusted parts, and thus documents quality assurance, manufacturing control and product testing with a lacquer seal and protects against intrusion by third parties. The screw retainer varnish is applied to stud bolts, pressure fittings, nuts and other threaded connections once they have been properly pre-stressed and adjusted.



Technical Data	
Min./max. processing	5 to 30 °C
Min./max. temperature	-40 to 145 °C
Min. initial strength	30 min
Min./max. final strength	12 h-24 h
Shelf life from production	24 Month



Red 50ml **Art.No. 0893 741451**  
Yellow 50ml **Art.No. 0893 741452**

## ADHESIVE LUBRICANT HHS® 2000 - 500ML

**Partly synthetic oil that is extremely resistant to high pressures.**

- Eliminates creaking and squeaking noises, features excellent creeping and penetration properties and provides excellent corrosion protection
- Very good adhesive lubricant; does not shear off turning and rotating parts
- Compatible with O-rings and X-rings as well as plastics. Does not affect painted base materials.
- Resistant to spray water and salt water, weak acids and alkalis
- Free from silicone, resin and acids

### Application

Extremely high-pressure-resistant partly synthetic oil for universal lubrication and for high pressure loads.

Suitable for universal lubrication and for high pressure loads, e.g. shifting, accelerator and clutch linkages, Bowden cables, pins, joints, hinges, reversing levers, lock strikers, drag link ends, slide rails, chain wheels, toothed racks, open gearwheels and much more.

### Instructions

Carefully and thoroughly pre-clean the lubrication points before each application. Shake the can before use, spray the parts and let it take effect briefly.

After use, spray the spray head upside down until empty.



Technical Data	
Chemical basis	Hydrocarbon
Oil basis	Mineral oil
Colour	Yellowish
Smell/fragrance	Oil
Min. temperature conditions	-25 °C
Max. temperature conditions	180 °C
Max. temperature resistance	200 °C
Min. flashing point of active ingredient	300 °C
Kinematic oil basis viscosity	1500 cSt
Shelf life from production	24 Month

## ADHESIVE LUBRICANT HHS®200

**High-quality, white long-life maintenance grease with PTFE ensures good temperature and weather resistance with excellent adhesive properties**

### Effective load resilience and noise reduction

- Eliminates creaking and squeaking noises
- High pressure resistance and good lubricating effect

### Optimal, long-lasting sealing properties

- Long-lasting lubricant with excellent adhesion and outstanding oxidation stability
- Reduction in frequency of re-lubrication needed due to wear resistance of the lubricated surfaces
- Offers long-lasting corrosion protection
- First-class sealing against weather conditions
- Excellent sealing behaviour against moisture and dirt

### Excellent material compatibility

- Protects and maintains O-rings and X-rings
- Does not affect painted base materials
- Plastic compatibility due to special formula

### Special pigmentation

- Optimum lubrication point detection during maintenance and inspection due to white pigmentation

### Contains PTFE solid lubricant

- Reduction of friction temperature for longer lubrication
- Good emergency running property and temperature resistance

### Application Area:

For professional use in lubricating moving parts where lubrication points are typically visible during maintenance and inspections, such as hinges, joints, sliding rails etc.



Technical Data	
Chemical basis	Mineral oil
Oil basis	Mineral oil
Colour	Brilliant white
Smell/fragrance	Characteristic
Density	0.78 g/cm <sup>3</sup>
Min. temperature conditions	-15 °C
Max. temperature conditions	130 °C
Min. flashing point	200 °C
Silicone-free	Yes
Acid-free	Yes
Resin-free	Yes
AOX-free	Yes
Resistance against	Water, Salt water, Weak lyes, Weak acids
Material compatibility	Steel, Non-ferrous heavy metals, Stainless steel, EPDM, FKM, NBR
Contents	400 ml
Weight of content	246 g
Shelf life from production	24 Month

## SUPERGLUE SUPER-FAST GLUE -20G

**For bonding metal, plastic and rubber parts with and to each other in a matter of seconds**

### Clever special closure

- Precise dispensing
- The tips do not become clogged

### Bonds in seconds

- Immediate further processing possible
- Fast repairs
- Simple designs without additional fastening materials possible

### High level of resistance to ageing and climatic conditions

**Solvent and silicone-free**

### Instructions

The application surfaces must be clean, dry and free of grease. For pre-treatment, refer to the technical data sheet. Apply a thin, even layer of adhesive to just one of the surfaces to be adhered. Apply sufficient pressure to make the connection immediately, in order to ensure complete contact.



Technical Data	
Colour	Transparent
Max. gluing gap size	0.1 mm
Chemical basis	Cyanoacrylate acidic ester
Shelf life from production/ conditions	15 Month/at room temperature

### Application

Superglue for bonding metal, plastic and rubber parts with and to each other.



## **SUPER FAST GLUE AND ACTIVATOR S ET 2** **PCS 100ML/400ML**

**Fast-setting: the adhesive hardens extremely quickly.**

**Universal application: Bonds both smooth and porous substrates.**

**Clean processing: Dosing cap allows clean working without the outlet opening becoming clogged.**

Super fast glue is an adhesive set which consists of high viscosity cyanoacrylate adhesive and activator. Bonds within seconds

Number of pieces in assortment/set	2pcs
------------------------------------	------



## SILICONE SPRAY, UNIVERSAL- 500ML

**Ensures long-lasting protection, preservation and insulation of vehicle exterior and interior plastic, rubber and metal parts; good lubricating properties**

- Plastic parts retain a high-gloss finish and do not become brittle
- Rubber parts are protected, do not become brittle and do not freeze or stick
- Impregnated folding roofs and hoods
- Anti-static effect (dust-repellent)
- Protects electrical contacts against moisture
- Sliding roof and seat rails, seat belt rollers etc. run smoothly
- Prevents squeaks and creaks between dissimilar materials, e.g. metal/plastic etc.
- Serves as an installation aid, e.g. for hose connections
- No staining

### Instructions

The usage instructions are recommendations based on the tests we have conducted and are based on our experience; carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. Insofar as our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee consistent quality of our products. We reserve the right to make technical changes and further develop products.



Technical Data	
Chemical basis	Mineral oil
Colour	Colourless
Density/conditions	0.61 g/cm <sup>3</sup> / at 20 °C
Min./max. temperature	-5 to 40 °C
Shelf life from production	24 Month

## WS6 LUBE SPRAY

**Contains PTFE for long term and advanced lubrication.**

**High-grade lubricating agent based on a mixture of oils and penetrates in a blend of solvents.**  
**It has been formulated to offer quick and easy removal of seized and rusted components. Starts wet motors, penetrates and loosens tight, seized, rusty nuts & bolts. Cleanly lubricates, stops squeaks and protects against rust invasion. Frees sticky joints.**

### Features

- Frees Sticky joints.
- Stop squeaks & protects against rust invasion.
- Cleans & lubricates.
- Can be painted.
- Penetrates & loosens tight, seized, rusty nuts & bolts.
- Removes moisture, Starts wet motors.
- CFC Free
- Silicone Free

### Application

Directly spray or use the nozzle provided on the effected part to achieve the desired results.

Best for Automobile, Marine, garage, Home, Industry, Shops.

Compatibility: It will not affect Rubber, Plastic, and metal surface.

### Caution

Do not use near flame or any engine while it is running.

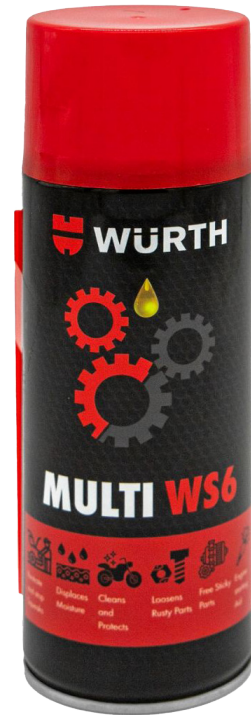
Pressurized can protect from heat, and do not expose to temperature exceeding Fifty degrees C.

Do not spray on naked flame or incandescent material.

Do not breathe vapor/spray.

Do not spray on live electrical equipment where sparkling may occur.

Use only in a well-ventilated area.



Technical Data	
Appearance	Aerosol Liquid
Color	Light brown
Odor	Solvent
Specific Gravity	0.82
Inside pressure (m. Pa)	0.46
Solubility in water	Insoluble
Corrosion Protection (ASTM B117, 72 hrs)	0-15 in 72 hours
Quantity per Can	100 ml, 235 ml, 400 ml
Spray Ability	Satisfactory
Min./max. temperature conditions	5 to 40 °C
Shelf life from production	36 Month

**ASSEMBLY PARTS CLEANER LIQUID - 25 LITERS**

**VOC-free cleaning liquid for the PARTS CLEANER parts washing device and pump spray bottle. NSF-certified.**

**Contains no volatile organic components**  
Meets the specifications of the detergent provisions according to 31.BlmSchV (German Federal Immission Control Ordinance)

**Excellent cleaning power**  
Oil, grease and other dirt is quickly and thoroughly removed from brakes, engine and tool parts.

**Good material compatibility**  
**Rapid separation in waste water according to Austrian standard test B5105**

Contains no volatile organic components (VOC)  
**Aqueous, material-protecting cold cleaner based on esters of fatty acids with excellent oil and grease loosening cleaning power and temporary corrosion protection**



**Instructions**

Fill undiluted into the PARTS CLEANER part washing device. Observe the fill level!  
Add to pump spray bottle likewise as a concentrate. Spray the product plentifully onto the parts to be cleaned and allow to take effect according to the degree of contamination. Then rinse with fresh product or wipe down. If necessary, use a brush or sponge to aid cleaning.

Technical Data	
Smell/fragrance	Characteristic
Colour	Light yellow
Density/conditions	1 g/cm³ at 20°C
Biodegradability	Greater than 95%
PH Value	9.5
AOX-free	Yes
VOC-free	Yes
Sustainability	Pollutants/Emissions

BMF WORKSHOP CLEANER

Environmentally friendly cleaner for workshops, machinery and vehicles

- No phosphates, solvents or corrosive substances
- Can be used mechanically, manually or in high-pressure devices
- Powerful at dissolving greases, yet mild and gentle on materials
- Does not attack paints, rubber or plastics
- pH value: 9.4
- Silicone-free
- AOX-free

Details/Application

For cleaning all water-resistant surfaces.



Technical Data		
Art.No.	0893 1182	0893 1183
Contents	5L	20L
Chemical basis	Alkaline tenside	Alkaline tenside
Colour	Luminous yellow	Luminous yellow
Smell/fragrance	Fruity	Fruity
pH-neutral	No	No
pH value	9.4	9.4
Density	1.04 g/cm³	1.04 g/cm³
Shelf life from production	24 Month	24 Month

## REMOVER OF LABEL-(INDUSTRY-CLEANER)

**High-quality special cleaner for removing adhesive tape residue, labels and film stickers as well as stubborn dirt. NSF-certified**

### Effective

- Easy removal of adhesive residues, labels and adhesive tapes
- Stubborn dirt such as wax, rubber abrasion, silicone residues, permanent marker, oil and grease are loosened

**Gentle on materials, delicate surfaces such as aluminium, brass and stainless steel are not damaged**

### User-friendly

- No unpleasant odours for users and the environment.
- Fast and effective cleaning.

### Details/Application

Cleans machine parts, plastic parts and metallic surfaces of adhesive residues. Also suitable for removing protective preservatives e.g. on brake discs.



Technical Data	
Chemical basis	Special benzene with D-limonene
Colour	Transparent
Smell/fragrance	Characteristic
Min. flashing point	10 °C
Hazard class (German Ordinance on Combustible Liquids)	Al
Density	0.74 g/cm <sup>3</sup>
AOX-free	Yes
Silicone-free	Yes
Shelf life from production/ conditions	24 Month/below 25°C



## BATTERY TERMINAL GREASE-PROTECTOR-150ML

### Long-term and temperature-resistant protection for battery terminals

- Protects battery terminals, pole terminals and plug connections from corrosion, weather and battery acids
- Prevents transfer resistances and voltage drops, thereby extending the battery life.

### Instructions

Shake can before use. Thoroughly clean and mount the battery terminals, pole terminals etc., and spray a thin coat on all sides

### Notice

Caution: Do not spray on paint! Immediately remove residues from the lacquer with brake cleaner; otherwise spots may form.



Technical Data	
Chemical basis	Dimethacrylic acid ether
Colour	Blue
Smell/fragrance	Solvent-like
Shelf life from production	24 Month



## TECHNICAL CHEMICALS

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الرياض

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# #READY FOR WORK



**CONSUMABLES**

## CABLE BAND, PLASTIC TONGUE-PLATNG-BLACK

Reliable cable tie for quickly organizing and bundling cables and wires

Long, reliable service life

High industrial quality for a long, reliable service life for indoor and outdoor use, depending on the version

Internal toothings on the tie for a secure grip on bundled cables

Natural-colored versions are only suitable for indoor use,

black versions are also suitable for temporary outdoor use due to their UV and weather resistance.

A carbon additive in the black cable ties delays the effect of UV rays on the material

Resistant to bases, oils, greases and vehicle fuels

Easy to use ; Can be installed directly by hand, no additional assembly tools are required

### Areas of Application

- Switch cabinets
- Installation
- Automotive
- Automobile workshops
- Industrial workshops
- Elevator construction



Width mm	Length mm	Description	Art. No.	Min./max. bundle diameter (mm)
2.5	100	Cable band, plastic tongue-NATURAL PLAS 2.5X100	<b>0502 11</b>	1.6-20
2.5	100	Cable band, plastic tongue-PLATNG-BLACK-2,5X100	<b>0502 111</b>	1.6-20
3.6	140	Cable band, plastic tongue-PLATNG-NATURE-3,6X140	<b>0502 12</b>	1.6-30
3.6	140	Cable band, plastic tongue-PLATNG-BLACK-3,6x140	<b>0502 121</b>	1.6-30
3.5	200	Cable band, plastic tongue-PLATNG-NATURE-3.5x200	<b>0502 13</b>	1.6-40
3.5	200	Cable band, plastic tongue-PLATNG-BLACK-3.5X200	<b>0502 131</b>	1.6-40
3.6	280	Cable band, plastic tongue-PLATNG-NATURE-3,6X280	<b>0502 135</b>	1.6-75
3.6	280	Cable band, plastic tongue-PLATNG-BLACK-3,6X280	<b>0502 1351</b>	1.6-75
4.8	178	Cable band, plastic tongue-PLATNG-NATURE-4.8x178	<b>0502 14</b>	1.6-40
4.8	178	Cable band, plastic tongue-PLATNG-BLACK-4.8X178	<b>0502 141</b>	1.6-40
4.8	280	Cable band, plastic tongue-PLATNG-NATURE-4,8X280	<b>0502 15</b>	1.6-75
4.8	280	Cable band, plastic tongue-PLATNG-BLACK-4.8X280	<b>0502 151</b>	1.6-75
4.8	360	Cable band, plastic tongue-PLATNG-NATURE-4,8X360	<b>0502 16</b>	1.6-100
4.8	360	Cable band, plastic tongue-PLATNG-BLACK-4.8 X360	<b>0502 161</b>	1.6-100
7.8	370	Cable band, plastic tongue-PLATNG-NATURE-7,8X370	<b>0502 18</b>	1.6-100
7.8	370	Cable band, plastic tongue-PLATNG-BLACK-7.8X370	<b>0502 181</b>	1.6-100



## PVC Insulating tape, electric

**Insulating tape, HIGH QUALITY, Adhesive tape, for electrical use**

**Excellent adhesiveness and elasticity even at low temperatures**

- Safe thanks to tested properties
- Flame-retardant

### **Safe and easy to use**

- Tear-proof and resistant to ageing
- High degree of flexibility and adhesive strength
- Excellent moulding to different shapes
- High level of dielectric strength and mechanical protection

**Permanent material properties even at changing and low temperatures**

**Highly resistant to diluted acids and alkalis**



Colour (Color)	Width	Length	Art. No.
Black	18 mm	10 m	0985 181001
Yellow	19 mm	5 m	0985 19052
Blue	19 mm	5 m	0985 19053
Red	19 mm	5 m	0985 19055

**POLYESTER CLOTH ADHESIVE TAPE**

For bundling and bandaging cable harnesses, especially where high temperatures can occur (e.g. in the engine compartment)

- Abrasion and tear resistant
- PVC-compatible

**Details/Application**

For bundling and bandaging cable harnesses, especially where high temperatures can occur (e.g. in the engine compartment)



Technical Data		
Art.No.	0771 100119	0771 100219
Adhesive base	Acrylate	Synthetic natural rubber
Backing material	Polyester	Woven polyester fleece
Min. longitudinal resistance to tearing	200 N/cm	30 N/cm
Min./max. temperature resistance	-40 to 150 °C	-40 to 105 °C
Length	25 m	10 m
Width	19 mm	19 mm
Thickness	0.27 mm	0.50 mm
Colour	Black	Black
Elongation at break	20%	10%





### MY NOTES:

[illegible]



## CONSUMABLES

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**#READY  
FOR WORK**

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