



# RUBSON

## ST5 Multi-Purpose Sanitary

Easy to use silicone sealant with outstanding mould resistance (Silicotec Technology)

### CHARACTERISTICS

RUBSON ST5 Multi-Purpose Sanitary is a water-based, one component ready-to-use silicone sealant with outstanding mould resistance for sanitary applications. It cures at room temperature to form a flexible, long-lasting silicone seal. RUBSON ST5 Multi-Purpose Sanitary has the advantage of being packable in flexible polyethylene tubes.

RUBSON ST5 Multi-Purpose Sanitary is a silicone of a new generation that contains a triple protection system against mould:

- Protection 1: Repels mould spores on the surface
- Protection 2: Stops growth of mould on the sealant
- Protection 3: Prevents the production of mould spores

- Superior mould resistance – 5-year guarantee
- Triple protection system to achieve long-term mould resistance
- Odorless during application
- Easy to use for untrained users. Easy correction: Fresh sealant can be removed with water
- Tools and hands can be cleaned with water
- Areas that are contaminated with uncured sealant may be cleaned with a dry cloth or a sponge soaked in water
- Suitable for vertical and horizontal as well as triangular joints
- Easy smoothing and finishing for neat joints
- Excellent primerless adhesion on a wide variety of building surfaces such as: ceramic tiles, enamel, glass, wood, anodised aluminium, etc.

### APPLICATION FIELD

RUBSON ST5 Multi-Purpose Sanitary is recommended for:

- Sealing of joints in bathrooms, showers, toilets, laundry rooms, kitchens
- Sealing of connection joints between sanitary equipment and tiling (floor, walls, ceiling)
- Peripheral joints around tiled surfaces in humid rooms, including kitchen countertops, washbasin surrounds and non-immersed bathroom areas
- Sealing and finishing joints between tiles and adjacent rigid surfaces (walls, corners, recesses)
- Sealing of washing basins, sinks, work top joints
- Repairing of damaged silicone joints

### STANDARDS

ISO 846-B	Microbiological growth: Level 0
EN 15651-3 (CE marking)	Class XS1, product type S: sealant for joints in sanitary areas
EN 15651-1 (CE marking)	Product type F-EXT-INT: sealant for facade for interior and exterior application
GEV EMICODE®	EC 1 <sup>plus</sup> (very low emissions)
VOC emissions class (France)	Class A+

### INSTRUCTIONS FOR USE

#### Application

RUBSON ST5 Multi-Purpose Sanitary is supplied ready to use and can be applied from the cartridge using a standard hand operated sealant gun.

#### Joint design

The joint width must be designed to suit the movement capability of the sealant. In case of rectangular sanitary joints, it is necessary to maintain a minimal depth of 5 mm. Generally, a width to depth ratio of 1 : 2 must be maintained. In case of triangular joints both contact areas should be minimum 6 mm wide.



**Joint preparation**

The substrates to seal must be clean, free from oils, grease, dust and loose particles and should be dry. Where necessary, completely remove old sealant and other residues (in case of silicone residues: product usually sticks on silicone residues). Surfaces can be degreased with the appropriate cleaner. After joint and substrate preparation, insert backing rod (closed cell, PE-foam backing rods) to required depth if necessary. To produce optically neat joints, we recommend masking off joint edges with an appropriate tape.

**Application**

**Cartridges:** Cut off the top of cartridge cap above the thread, screw on the plastic nozzle and cut at an angle to match the joint width required. Insert the cartridge into the sealant gun and extrude the sealant into the joint making sure that the sealant is in full contact with the sides of the joint. Fill the joint, avoiding air entrapment.

**Pressure packs:** Pull off the cap from the nozzle and move the red slide control to the right (remove tamper before). Press the red lever to dispense the product into the joint making sure that the sealant is in full contact with the sides of the joint. Fill the joint, avoiding air entrapment. The speed of extrusion can be adjusted by the red slide control. To close, move the slide control to the left and close the nozzle with the cap.

**Tubes:** Remove screw cap and cut the nozzle at an angle to match the joint width. Squeeze out the sealant into the joint making sure that the sealant is in full contact with the sides of the joint. Fill the joint, avoiding air entrapment.

**Tooling**

Directly after application, the product should be tooled firmly against the joint sides to ensure good adhesion. Can be tooled with dry or wet (no soapy water) spatula or finger before the surface skin is formed. Excess uncured sealant can be wiped and cleaned with water. If required, skin formation can be delayed by spraying a little water gently on the joint. Remove the masking tape whilst the sealant has still not formed a skin and tool the joint to a smooth surface with water. The product should preferably be left to dry for several hours (at least 6) after the seal has been produced before being splashed with water (shower). Avoid contact with cleaning agents in the first 24 hours after application. For sealing joints inside a shower or around a bathtub, observe a drying time of up to one week before the area is put into service.

**Cleaning tools**

Fresh, uncured product can be removed with water. Clean tools and application equipment with water immediately after use. Cured sealant is insoluble in all solvents and can only be removed mechanically.

**TECHNICAL DATA**

<b>Uncured product</b>		
Base	Water-based silicone emulsion	
Odor	Neutral	
Application temperature, °C	5 - 40	(substrate and ambient)
Consistency	Non-slump paste	
Density, g/ml	~ 1.35	(ISO 2811-1)
Resistance to flow, mm	~ 0	(ISO 7390)
Skin formation time, minutes	~ 30	(23°C, 50% r.h.)
Curing speed, mm/hours	~ 1.5/24	(23°C, 50% r.h., bead 20x10mm)

<b>Cured product</b>		
Odour	Odorless	
Shore A hardness	~ 20	(ISO 868)
100% Modulus, N/mm <sup>2</sup>	~ 0.25	(ISO 8339-A)
Tensile strength, N/mm <sup>2</sup>	~ 0.35	(ISO 8339-A)
Elongation at break, %	~ 400	(ISO 8339-A)
Elastic recovery, %	~ 80	(ISO 7389-B)
Shrinkage, %	~ 19	(ISO 10563)
Movement capability, %	25	
Service temperature, °C	-50 - 120	

**LIMITATIONS**

The product is a water-based product and should not be used when temperatures inferior to 0°C are expected in the 24 hours after application. Product progressively develops its mechanical and adhesion properties in the weeks following its application. The best results are achieved approximately one month after application. Cannot be painted. In case of contact with coated surfaces (especially in case of alkyd resin paints) it is recommended to test the compatibility before use. Use clean water to smooth the surface - soapy water can affect the curing and can lead to color changes. Do not use RUBSON ST5 Multi-Purpose Sanitary as a glazing sealant, on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant. Color deviations may occur e.g. due to exposure to chemicals or high temperatures. However, a change in color does usually not affect adversely the technical performance or the durability. Not suitable for joints with water pressure or permanent water immersion, e.g. in swimming pools or aquariums. Product may not be used for mirror bonding or for natural stones. Product must not be used for applications in contact with foodstuffs.

**GENERAL INFORMATION****Surfaces**

The substrates to seal must be clean, free from oils, grease, dust and loose particles and should be dry. The product is suitable for many types of construction materials: ceramic tiles, enamel, glass, wood, anodised aluminium, etc. No adhesion to PE, PP, PTFE(Teflon®), PMMA (e.g. acrylic bathtubs). In cases of unknown materials or critical applications adhesions tests are recommended or contact our Technical Service.



**Storage**

18 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between 2 - 30°C.

**Chemical resistance**

Resistant to water, seawater, diluted alkalis, diluted acids, cement grout and water diluted detergents. The product is not recommended for applications with permanent contact with chemicals. Poor resistance to aromatic solvents, organic acids, concentrated alkalis and concentrated acids, chlorinated hydrocarbons. In cases of other chemicals contact our Technical Service.

**HEALTH AND SAFETY**

Before using the product please see related Safety Data Sheet that is available on request at 09 69 32 09 30 or on our website <https://mysds.henkel.com/index.html>.

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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