



# RUBSON

## PU Special Tile

Technical Data Sheet v.1, April 2026

One-component adhesive sealant based on high-performance polymer (Flextec technology)

### CHARACTERISTICS

All purpose, one-part, elastic joint sealant and multipurpose adhesives for indoor and outdoor applications based on Flextec®-Technology.

- Excellent adhesion on traditional roofing substrates such as clay tiles, fibre-cement tiles, metal flashings and slates
- Good elasticity - movement capability 20%
- High initial tack
- Tack-free surface
- Can be applied to damp surfaces without bubbling or losing adhesion (unlike PU sealants)
- Very good UV-, weather and ageing resistance, color stability – no surface cracking or crazing or yellowing
- Phthalate-free
- Silicone-free
- Free of hazardous isocyanates
- Solvent-free
- Non-corrosive
- Good gunnability even at low temperatures
- Nearly no shrinkage during curing
- Good compatibility with paints – can be painted over after curing
- Impact and vibration absorbing

### APPLICATION FIELD

RUBSON PU Special Tile bonds well on a wide variety of substrates and is recommended for use in elastic sealing and bonding applications:

- Flexible bonding of canal roof tiles, including tile-to-tile and tile-to-fibre-cement applications
- Flexible bonding and sealing of joints in roofing structures exposed to weathering, UV and thermal movements
- Sealing and bonding of roofing accessories such as metal flashings, copings, verge trims, eaves plates, cladding elements, rainwater return strips and protective profiles
- Connection joints, e.g. joints between wood/aluminium/PVC-window or door frames and brickwork, for stairs, balconies, terraces
- Installing (bonding and sealing) of windowsills, skirting boards, covering boards, stair steps, tiles, fittings etc. bonding of stucco, metals, wood, stoneware, prefabricated elements and many more
- Filling/sealing of cracks
- Joints and seam seals in metallic and wooden construction

### STANDARDS

EN ISO 11600	Class F-20HM, sealant for building construction
EN 15651-1 (CE marking)	Class 20HM, product type F-EXT-INT: sealant for facade for interior and exterior application
GEV EMICODE®	EC 1 <sup>plus</sup> (very low emissions)
VOC emission class (France)	Class A+

### INSTRUCTIONS FOR USE

#### Application

RUBSON PU Special Tile is supplied ready to use and can be applied from the cartridge using a standard air or hand operated gun, with no special pre-treatment.



### Sealing application

The joint width must be designed to suit the movement capability of the sealant. In general the joint width must be > 10 mm and < 35 mm. A width to depth ratio of ~ 1:0.5 must be maintained. Remove dust and loose particles thoroughly and ensure the surface is sound before application. After joint and substrate preparation, insert backing rod (closed cell, PE-foam backing rods) to required depth and apply primer if necessary. Insert cartridge into sealant gun and firmly extrude RUBSON PU Special Tile into joint making sure that it is in full contact with the side of the joint. Fill the joint, avoiding air entrapment. RUBSON PU Special Tile must be tooled firmly against joint sides to ensure good adhesion. Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant has still not formed a skin. After application, the product can be smoothed with soapy water before skinning for a perfect sealant surface. For repair works, open cracks to a minimum of 5 mm in width and depth, brush thoroughly, dust off and if needed apply a suitable primer or surface fixer. Fill and smooth immediately.

### Bonding application

For roof tile bonding, after substrate preparation, apply beads or strips of sealant on the underside of the tile, position immediately and press firmly to ensure full contact. Support heavy tiles or sloped-roof components temporarily until sufficient curing is achieved. Use hand pressure to set the element to be bonded into position. If necessary, use adhesive tape, wedges, or props to hold the assembled elements together for the initial hours of curing. An incorrectly positioned element can be easily unfastened and repositioned in the first few minutes after application. Apply pressure again. Optimum bonding will be obtained after complete curing of RUBSON PU Special Tile, i.e. after 24 - 48 hours at 23°C for a thickness between 2 - 3 mm.

### Cleaning tools

Clean tools and application equipment with white spirit immediately after use. Cured material can only be removed mechanically (e.g. with knife).

## TECHNICAL DATA

<b>Uncured product</b>	
Chemical base	Flextec®-Polymer (Moisture curing silane modified polymer (SMP) - cures by reaction with atmospheric humidity.)
Odour	Alcohol
Application temperature, °C	5 - 40 (substrate and ambient)
Consistency	Non-slump paste
Density, g/ml	~ 1.39 (ISO 2811-1)
Resistance to flow, mm	~ 0 (ISO 7390)
Skin formation time, minutes	~ 20 (23°C, 50% r.h.)
Curing speed, mm/hours	~ 2/24 (23°C, 50% r.h., bead 20x10mm)
Initial tack, g/cm <sup>2</sup>	~ >10

<b>Cured product</b>	
Odour	Odorless
Shore A hardness	~ 40 (ISO 868)
100% Modulus, N/mm <sup>2</sup>	~ 0.7 (ISO 8339-A)
Tensile strength, N/mm <sup>2</sup>	~ 0.9 (ISO 8339-A)
Elongation at break, %	~ 250 (ISO 8339-A)
Elongation at break, %	~ 310 (ISO 8339-B)
Elastic recovery, %	~ 85 (ISO 7389-B)
Shrinkage, %	~ -3 (ISO 10563)
Movement capability, %	20 (ISO 11600-F)
Recommended joint width, mm	10 - 35
Service temperature, °C	-40 - 80

## LIMITATIONS

- Elastic sealants may only be painted over if the coating is able to follow the movements of the sealant (generally if joint movements are < 5%, depending on the coating); otherwise, cracks may occur in the surface of the coating.
- For joints subject to high movement, coatings may cover the joint sides by a maximum of 1 mm.
- Due to the large number of coatings available on the market, compatibility tests with the coating system are recommended prior to application, especially in the case of alkyd resin paints.
- For powder-coated substrates (e.g. powder-coated aluminium window frames), a preliminary adhesion test is recommended before use.
- When painted over RUBSON PU Special Tile, alkyd resin paints may dry slowly and may exhibit surface tackiness and/or discolouration.
- Do not use RUBSON PU Special Tile as a glazing sealant.
- Do not use on bituminous substrates or on building materials that may bleed oils, plasticisers or solvents which could attack the sealant.
- Not suitable for joints subject to water pressure or permanent water immersion (e.g. swimming pools).
- Do not use RUBSON PU Special Tile to seal bathtubs or washbasins.
- Not recommended for use on copper and brass.
- Not suitable for natural stones (e.g. marble).
- Colour deviations may occur, for example due to exposure to chemicals or high temperatures; however, such changes do not usually adversely affect the technical performance or durability.
- The product may only be used for mirror bonding if the mirror coating and the protective lacquer comply with EN1036-1; for unknown mirror qualities, approval should be obtained from the mirror manufacturer.

## GENERAL INFORMATION

### Surfaces

The substrates to seal or bond must be clean, free from oils, grease, dust and loose particles and should be dry. Standing water should be removed. Remove residues of old sealant/adhesive. Use acetone, spirit, isopropanol or special cleaners to remove residues of oils or grease. The product is suitable for many types of construction materials: concrete, brick, tile, ceramics, fibre-concrete, galvanized steel, stainless steel, iron, painted metals, lacquered aluminium, anodized aluminium, wood, melamine, PVC etc. No adhesion to PE, PP, PTFE (Teflon®), PMMA (acrylic glass). In cases of unknown materials or critical applications adhesions tests are recommended or contact our Technical Service.



**Storage**

12 months from date of production if stored in unopened original cartridges, in dry conditions and protected from direct sunlight at temperatures between 10 - 25°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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