



RUBSON

PU Universal Polymer

Technical Data Sheet v.3, 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.

- Good elasticity - movement capability 25%
- Excellent adhesion to a wide range of construction materials without primer; improved adhesion, e.g. to "difficult" PVC substrates
- Excellent adhesion on copper and brass
- High initial tack
- Tack-free surface
- Suitable for natural stones (like marble, granite)
- Can be applied to damp surfaces without bubbling or losing adhesion (unlike PU sealants)
- Very good UV-, weather and ageing resistance, color stability and ageing resistance – 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 Universal Polymer bonds well on a wide variety of substrates and is recommended for use in elastic sealing and bonding applications:

- Sealing joints in light and heavy prefabrication
- Flexible bonding of elements subject to vibration or dimensional movement (e.g., parquet flooring, tiles, metal profiles, PVC, wood, stair nosings, coverings, roofing elements, joint covers, rainwater access covers)
- Connection joints, e.g. joints between wood/aluminium/PVC-window or door frames and brickwork, for stairs, balconies, terraces, natural stones (e.g. marble, granite...), soundproofing of pipes between concrete and sheathing and many more
- Installing (bonding and sealing) of windowsills, skirting boards, covering boards, stair steps, tiles, fittings etc. bonding of baseboards, crash protection boards, stucco, metals, wood, stoneware, prefabricated elements and many more.
- Filling/sealing of cracks
- Joints on walkable surfaces (e.g., floors, terraces)
- Joints and seam seals in metallic and wooden construction
- Joints in ventilation & air-conditioning ductwork

STANDARDS

EN ISO 11600	Class F-25HM, sealant for building construction
EN 15651-1 (CE marking)	Class 25HM, product type F-EXT-INT: sealant for facade for interior and exterior application
EN 15651-4 (CE marking)	Product type PW-EXT-INT: sealant for movement joints in floors for interior and exterior application
ISO 16938-1 and -2	Suitable for natural stone, no staining
GEV EMICODE®	EC 1 ^{plus} (very low emissions)
VOC emission class (France)	Class A+



INSTRUCTIONS FOR USE

Application

RUBSON PU Universal Polymer 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. For sealing joints in light and heavy prefabrication, refer to DTU 44.1. Surfaces must be sound, clean, dry and free from dust, grease or poorly adhering materials. Remove previous sealant and reconstitute any weak areas 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 Universal Polymer into joint making sure that it is in full contact with the side of the joint. Fill the joint, avoiding air entrapment. RUBSON PU Universal Polymer 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. Painting is possible after at least 24 hours; preliminary compatibility tests are recommended with both water-based and solvent-based coatings.

Bonding application

After substrate preparation apply RUBSON PU Universal Polymer in strips or spots on the bonding surface at intervals of a few centimeters. Use hand pressure to set the element to be bonded into position. Apply the product in beads or spots, assemble surfaces immediately and press firmly. For heavy objects or vertical and overhead applications, temporary support must be provided until curing is sufficient. 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 Universal Polymer, 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

Uncured product

Base	Flextec®-Polymer (moisture curing silane modified polymer (SMP))	
Odour	Alcohol	
Application temperature, °C	5 - 40	
Consistency	Non-slump paste	
Density, g/ml	~ 1.4	(ISO 2811-1)
Resistance to flow, mm	~ 0	(ISO 7390)
Skin formation time, minutes	~ 25	(23°C, 50% r.h.)
Curing speed, mm/hours	~ 2/24	(23°C, 50% r.h., bead 20x10mm)
Initial tack, g/cm ²	~ 10	

Cured product

Odour	Odorless	
Shore A hardness	~ 30	(ISO 868)
100% Modulus, N/mm ²	~ 0.6	(ISO 8339-A)
Tensile strength, N/mm ²	~ 0.9	(ISO 8339-A)
Elongation at break, %	~ 250	(ISO 8339-A)
Elongation at break, %	~ 400	(ISO 8339-B)
Elastic recovery, %	~ 80	(ISO 7389-B)
Shrinkage, %	~ 3	(ISO 10563)
Movement capability, %	25	
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 (in general if joint movements are < 5 %, depending on the coating) – otherwise cracks in the surface of the coating can occur. In case of high movement joints coatings may cover the joint sides to max. 1 mm. Due to the large number of coatings on the market, it is recommended to test the compatibility of a coating product before use, especially in case of alkyd resin paints. When painted over RUBSON PU Universal Polymer, alkyd resin paints may dry slowly and show surface tackiness and/or discoloration. In case of powder coated substrates (e.g. powder coated aluminium window frames) an adhesion test is recommended before use.

Do not use RUBSON PU Universal Polymer as a glazing sealant. Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant.

Not suitable for joints with water pressure or permanent water immersion, e.g. in swimming pools. Do not use RUBSON PU Universal Polymer to seal bathtubs or washbasins.

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.

Product may only be used for mirror bonding if the mirror coating and the protective lacquer complies with EN 1036-1. In case of unknown mirror qualities please ask mirror producer for an approval.

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. (Internal remark: 15 months shelf life possible, if special cartridges are used. Please ask Packaging/IBM/ TS)

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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