

FLEX PU SEALANT

One-component moisture curing polyurethane sealant.

Description

Multi-purpose, single component, polyurethane elastic sealant and adhesive, solvent free with excellent resistance to moisture. Appropriate for sealing vertical and horizontal joints with 10-25 mm width for interior and exterior applications. After application, in contact with air, the sealant is vulcanized to an elastic and cohesive mass.

Physical properties

- Elastic performance and movement capability.
- Adhering ability to dissimilar substrates.
- Easy application at temperatures from +5°C to +40°C.
- Very good resistance to aging (UV and moisture).
- High mechanical strength.
- Service temperature: -40 °C to +90 °C.
- Paintable.
- Resistant to diluted acids, common chemicals, detergents petrochemicals and mineral oils.

Application fields

Features excellent adhesion indoors and outdoors to all building materials, including concrete, plaster, natural or synthetic stones, metals, aluminium, wood, ceramic tile, plastic etc. Ideal for sealing, restoration, repairs and welding on window sills, stairs, balconies, joints around windows and doors, facades, metal panels, concrete joints and many more.

Application instructions

Joint preparation: The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant, which may affect adhesion. Surfaces should be degreased with solvent using a clean cloth. To remove dust, use oil-free compressed air.

Joint dimensions: The movement capability of sealant as well as local regulations must be considered. Joint width should be twice the depth when the width is bigger than 20mm and equal to the depth when the width is smaller than 20mm. The width of the joints should not be less than 5 and bigger than 40mm.

Sealant application

Cut the nozzle slantwise to form an opening proportional to the joint width, put the cartridge/sausage into the hand- or air gun and apply the sealant in the joint. Then smoothen the surface of the uncured sealant with a spatula, to form a slightly negative crescent.

For improved performance it is essential that the sealant be only bonded to the two facing sides of the joint. To achieve this install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation making sure all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces. This operation should be made with a dry spatula before skin formation occurs.

Excess uncured sealant should be wiped and cleaned with a commercial solvent such as xylene or white spirit. Cured sealant can only be removed by abrasion.

Technical properties

a. Unvulcanized Rubber:

- Consistency: non-sag
- Skin forming time: 120-240 min (23 °C, 50% RH)
- Curing speed: 2-3 mm/1 st day (23 °C, 50% RH)
- Specific Gravity: 1.25

b. Vulcanized Rubber:

- SHORE A - Hardness: 30±5
- Movement capability: 25%
- Ability to return: 90%
- Tensile strength (ISO 8339): 0,82 N/mm²
- Modulus at 100% elongation (ISO 8339): 0,41 N/mm²
- Elongation at break (ISO 8339): 450 %

Packaging

In paper carton with 25 aluminum cartridges of 310ml or 15 aluminum sausages 0.6 Lt.

Shelf life

12 months minimum when stored in places with normal temperature and humidity.

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

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