

MAXFLEX[®] PU-1

Single Component Polyurethane Joint Sealant



Maxflex[®] PU-1 is a one component, high performance non-staining sealant developed for natural stone applications. The formulation is based on an advanced hybrid PU polymer technology with excellent UV, weather and temperature resistance.

Uses

- Sealing expansion joints in buildings
- Used for making permanent high strength elastic bonding in construction, automotive, industrial and marine application.
- For bonding of metal (stainless steel, aluminium, steel, copper)
- Ideal for natural stone applications
- Application to difficult substrates with modern façade construction
- Used on substrates where industrial painting is expected to be done over the applied sealant

Benefits

- Non-staining sealant
- Abrasion resistant including foot traffic
- High strength adhesive bond
- UV resistant
- Excellent adhesion (without primer) to a wide variety of substrates
- Tolerant to damp surface
- Low dirt pickup
- Permanently flexible
- High movement accommodation
- Excellent low temperature gunnability
- Environment friendly

Technical Support

Thermax offers a comprehensive range of high performance, high quality, concrete repair and construction products. In addition, Thermax offers technical support service to specifiers, end users and contractors, as well as onsite technical assistance in locations all over the country.

Standard Compliance

Maxflex[®] PU-1 conforms to ASTM C 920 & ISO 9001& ISO 14001.

Properties

| | |
|--------------------------------------|------------------|
| Curing System | Moisture Curing |
| Density | ~1.45 gm/ml |
| Skin-over Time | 25-40 minutes |
| Tack Free Time | Up to 30 minutes |
| Hardness Shore A | 20-30 |
| Movement Accommodation Factor | 25% |
| Tensile Strength | ~1.0 MPa |
| Elongation at Break | >700% |
| Service Temperature | -30°C to 100°C |
| Application Temperature | 5-40°C |

Surface Preparation

The joint surfaces must be dry, clean and free from dust, oil, grease and other contamination. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with cleaning solution. We recommend removing any irregularities using a masking tape before sealant has skinned over.

Application

Firstly, the tip of cartridge /sausage is to be cut with a sharp knife at the nozzle at 45° angle to desire bead width. Maxflex[®] PU-1 can now be applied to the substrate using a cartridge gun. Squeeze out the sealant into the slot between the joint faces such that both the faces are in complete contact.

Tooling time is 10 minutes, tack free time is 10-15 minutes. Care must be taken to tool the sealant before skin formation so that a good contact is establishes between the joint substrates. For joints over 10 mm deep, use approved backing material.

Painting

Maxflex[®] PU-1 can be over painted with water based paints. However, we recommend carrying out a compatibility test with the paints to avoid potential reactions. In case an alkyd paint is to be used, it must be used in coordination with a suitable water based undercoat.

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Limitations

- In areas subjected to continuous chlorinated water immersion or salt water immersion, such as swimming pools, spa etc. Maxflex[®] PU-1 must be avoided.
- Not to be used PE, PP, Teflon, Neoprene & bituminous surfaces or glazing applications
- Maxflex[®] PU-1 must not be coating with alkyd resin paint since it inhibits curing of the paint
- If the joints are greater than 10mm in width, use of Maxflex[®] PU-1 is to be avoided

Health and Safety Instruction

There are no health hazards associated with Maxflex[®] PU-1 sealant in normal use. However with any material, good hygiene practices should be followed, i.e., keep out of eyes, do not consume, keep away from children and pets and wash hands thoroughly after use.

Fire

Maxflex[®] PU-1 is non-flammable.

Shelf Life

Maxflex[®] PU-1 has a shelf life of 12 months from date of manufacturing in unopened packaging when stored in a cool and dry place at a recommended temperature range of +5°C to 25°C away from direct sunlight and moisture.

Packing

Maxflex[®] PU-1 sealant is supplied in 600 ml sausage and 310ml cartridge.

Colors

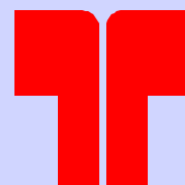
Available in black, grey and white colors.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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