

MARIFLEX® PU 30

Medium Modulus polyurethane Joint-Sealant One component Mastic

Product description

MARIFLEX® PU 30 is a thixotropic, permanent elastic, cold applied and cold curing, one component, polyurethane elastomer (mastic) used for chalking and joint-sealing. Classification SNJF elastomer 1^{er} category. Cures by reaction with ground and air moisture.

Uses

The MARIFLEX® PU 30 is used for:

- Caulk seals used in heavy and light prefabrication and traditional masonry.
- Joint sealing of medium movement joints.
- Crack filling mastic.
- Tile, ridge tile, skirting and bead adhesion in interior decorating.

Advantages

- Simple application (one component).
- Adheres excellent on most supports in the building industry: concrete, glass, anodized aluminium, wood etc
- Resistant to stagnating water.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Resistant to frost.

Consumption

Consumption depends on volume of the joint or crack to be sealed.

Colors

The MARIFLEX® PU 30 is supplied in white and gray.

Technical data

| PROPERTY | RESULTS | TEST METHOD |
|--------------------------------------|---|------------------------|
| Composition | Polyurethane mastic (pre-polymer) | |
| Elongation at Break | 250% | ISO 8339 |
| Modulus of elasticity (at 100%) | 0,35 N/ mm ² | ISO 8339 |
| Elastic recovery | > 70% | ISO 7389 |
| Hardness (Shore A Scale) | 35 | DIN 53505, ASTM D 2240 |
| Movement capability | 25% | |
| Solids Content | 100% | CALCULATED |
| Application Temperature | 5°C to 35°C | |
| Skin formation time | 75 to 105 min (at 23oC, 50%RH) | |
| Polymerized thickness after 24 hours | 3mm (at 23oC, 50%RH) | |
| Resistance to flow at 23oC | ≤3mm | ISO 7390 |
| Resistance to flow at 50oC | ≤3mm | ISO 7390 |
| Chemical Properties | Good resistance against water, cleaning agents, and accidental spray with oils, hydrocarbons, acidic and basic solutions (10%). Due to the sensitivity of polyurethane to UV rays, light shades change color. This change in appearance does not modify their mechanical properties or leak tightness. | |

Application

Surface Preparation

The surface needs to be clean, dry and sound, free of oils or any contamination, which may harmfully affect the adhesion of the mastic. Remove all loose material. Concrete surfaces must be dry and stable (at least 28 days). Moisture content should not exceed 5%. Users must check that the mastic is compatible with the surface in terms of adhesiveness, staining and chemical compatibility (test a section first).

Making the joint:

Correctly size the joint. We recommend a width between 10 and 30 mm. The Width / depth ratio of the joint should be about 2:1.

Movement joint sealing for Roof waterproofing purposes:

Apply some MARIFLEX[®] PU 30 Joint-Sealant on the bottom of the joint only. Then with a brush, apply a stripe layer of MARISEAL[®] 250, 200mm wide centered over the joint. Place the MARISEAL[®] Fabric over the wet coating and with a suitable tool, press it deep inside the joint, until it is soaked and the joint is fully covered from the inside. Then fully saturate the fabric with enough MARISEAL[®] 250. Then place a polyethylene cord of the correct dimensions inside the joint and press it deep inside onto the saturated fabric. Fill the remaining free space of the joint with MARIFLEX[®] PU 30 sealant and allow 12 hours to cure.

Priming

Prime absorbent surfaces, like concrete, screed and wood with MARISEAL[®] 710 primer. Prime non-absorbent surfaces like metal and ceramic tiles with MARISEAL[®] AQUA PRIMER.

Sealing

After the primer has dried, press a flexible, non-adhesive joint filler (polyethylene cord), in the joint. The joint filler should be free of holes to ensure that bubbles do not form in the joint.

Apply the MARIFLEX[®] PU 30 mastic by using the special pistol or a trowel. For a better finish, use protection strips.

For narrow joints, apply the mastic in one movement. For very wide joints, apply the mastic in three places: the first two on the edges of the joint and the third on the filler. Smooth out with soapy water. Press the mastic against the edges and the joint filler while taking care not to create air bubbles. Remove protection strips.

May be painted after polymerization is complete. Use acrylic or vinyl dispersion paints after testing a section.

Packaging

MARIFLEX[®] PU 30 is supplied in 600ml Aluminium Bags. Each Box contains 20 Aluminium Bags. Bags should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5^o-30^oC. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARIFLEX[®] PU 30 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.