

MARIFLEX® PU30 SL

TECHNICAL DATA SHEET

Date: 01.06.2011 – Version 10

Low Modulus polyurethane Joint-Sealant Two component Mastic, Self-leveling

Product description

The MARIFLEX® PU30 SL is a self-leveling, permanent elastic, cold applied and cold curing, two component, polyurethane elastomer (mastic) used for chalking and joint-sealing on horizontal surfaces.

The MARIFLEX® PU30 SL is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical and natural element resistance properties.

Cures by reaction of the two components.

Uses

The MARIFLEX® 3900 is used for:

- Caulk seals used in construction (horizontal).
- Joint sealing of horizontal movement joints.
- Crack filling mastic.

Advantages

- Simple application.
- Low Viscosity
- Self leveling for horizontal joints.
- Low modulus.
- 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 to be sealed.

Colors

The MARIFLEX® PU30 SL is supplied in grey.
Other colors may be supplied on demand.

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane mastic (Polyols+Isocyanate)	
Mixing Ratio A : B	5 :1 by weight	
Elongation at Break	>250%	ISO 8339
Elastic recovery	> 70%	ISO 7389
Hardness (Shore A Scale)	25-30	DIN 53505, ASTM D 2240
Movement capability	25%	
Solids Content	100%	CALCULATED
Pot Life	40 min	
Curing Time	12 hours	
Final Curing Time	7 days	
Application Temperature	5°C to 35°C	
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.	

CONSTRUCTION



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.

Priming

Prime absorbent surfaces like concrete, cement screed or wood with MARISEAL® 710 or with MARISEAL® AQUA PRIMER. Prime surfaces like bitumen-, asphaltfelts with MARISEAL® 730 or with MARISEAL® AQUA PRIMER. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings with MARISEAL® AQUA PRIMER. Allow the primer to cure according its technical instruction.

Mixing & Sealing

Stir MARIFLEX® PU30 SL Component A well before using.

Pour the entire content of the MARIFLEX® PU30 SL Component B in the Component A pail and mix by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min.

ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Apply the MARIFLEX® PU30 SL mastic by pouring it carefully into the prepared joint or crack. For a better finish, use protection strips.

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

ATTENTION: Do not apply the MARIFLEX® PU30 SL in joints with present humidity. For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Packaging

MARIFLEX® PU30 SL Comp. A is supplied in 5kg metal pails. MARIFLEX® PU30 SL Comp.B is supplied in 1kg metal pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARIFLEX® PU30 SL contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. PROFESSIONAL USE ONLY.

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.

* All values represent typical values and are not part of the product specification.