VIMASEAL – PU

Polyurethane-based sealant

Properties

The VIMASEAL - PU is a sealing mastic based on polyurethane, which offer:

- Elastic behavior and high functionality
- Excellent adhesion on dissimilar materials
- Resistance to mechanical stress
- Resistance to weathering

VIMASEAL- PU has the form of a thixotropic paste, which after contact with the atmospheric air is converted into elastic and cohesive mastic and ensure bonding and sealing of the two sidewalls of the joint.

VIMASEAL-PU is offered in two types, each one in different packaging.

1. "Sausage" tube type LM (Low Modulus) for high operational deformability
2. Aluminum cartridge type S/A 30, less soft for greater mechanical stress.

Applications

VIMASEAL - PU indicated for sealing and bonding of vertical and horizontal joints and joints between similar or non similar materials in building and general engineering structures, prefabricated buildings, industrial applications, indoor decoration etc. It has adhesion to most substrates of building construction: ceramic, cement, marble, glass, wood, aluminium, stainless steel-galvanized or painted metals, plastics, etc.

Typical applications are the:

- concrete joints (Expansion, interruption, cracks)
- Fits frames

If it is required the polymerized material can be painted.

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Technical Characteristics

1. Type LM in “sausage”

Colour	Grey
Application temperature	+5^{0}C to +40^{0}C
surface film-forming time (depending on weather conditions)	60 - 120 min
polymerisation rate (depending on the circumstances)	3 mm / day 1 9-12 mm / 7 days
Hardness Shore A	24 ± 2
Resistance to temperature variations	-30 0C to +80 0C
recovery capacity (100% stretch for 24 h)	)> 80 %
Functional expansion and contraction of the joint	± 25%
Adhesive ability and behavior in elongation Substrate: concrete primed with Joint Primer	(ISO 8339)
voltage at elongation 100%	0,33 N / mm2
Maximum voltage	0,60 N / mm2
Elongation at cut off point	400%

2. Type S/A 30 in cartridge

Colour	Grey, white
Application temperature	+5^{0}C to +40^{0}C
surface film-forming time (depending on weather conditions)	75 - 105 min
polymerisation rate (depending on the circumstances)	3 mm / day
Hardness Shore A	30 ± 2
Resistance to temperature variations	-20 0C to +80 0C
recovery capacity (100% stretch for 24 h)	> 70 %
Functional expansion and contraction of the joint	± 25%
Adhesive ability and behavior in elongation Substrate: concrete primed with Joint Primer	(ISO 8339)
voltage at elongation 100%	0,35 N / mm2
Maximum voltage	0,55 N / mm2
Elongation at cut off point	250%

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How to use

1. Pretreatment

The joints are thoroughly cleaned from dust, etc. by blowing with compressed air. The metal surfaces are cleaned from grease with solvent or gasoline.
To avoid soiling the edges of the joints adhesive tape is placed along them, which is removed immediately after sealing.
In case of sealing concrete joints it is recommended to spread the edges of the joints with the special Joint Primer to enhance adhesion surface.
The sealing material is placed 15 minutes to 3 hours after application of the primer.
The width of the seal must not be less than 5 mm and not more than 5 cm. The depth of the seal is formed in the half-width for a width greater than 2 cm and approximately equal to the width of less than of 2 cm.
The depth of the seal is adjusted by placing a specific string of expanded polyethylene, and thereby avoiding the adhesion of the material at the bottom, which prevents the free monitoring of expansion and contraction.
If the depth of the joint does not permit the string, it is recommended to place at the bottom polyethylene film to prevent adhesion.

2. Sealing

Cut the kink nozzle, so as to form the opening to the width of the seal. Place the sausage or cartridge in a suitable or airbrush and seal the joint.
The mastic surface is formed with an appropriate spatula, after sprayed with soapy water (water with dishwashing liquid), so as to form slightly negative meniscus.

Consumption

For joint section	5 mm x 5 mm	24 m / sausage 600 ml 12 m / cartridge 300 ml
	10 mm x 10 mm	6 m / sausage 600 ml 3 m / cartridge 300 ml

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Special Information

Cleaning tools
The material must be purified before polymerization with white spirit or MEK (methyl ethyl ketone). The polymerized material is removed mechanically. Hands are washed with soap and water.

Packaging
LM Type:
In 600 ml sausage package in aluminum bag
S/A 30 Type:
In 300 ml aluminium cartridge

Storage
Store VIMASEAL - PU in areas with normal temperature and humidity (≤ 25^{0}C and 50% RH) with duration of at least nine months.

Health-precaution measures
Avoid contact with the skin because it can cause irritation. If the material comes into contact with the eyes is recommended to rinse with water. Keep away from children.

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