TECNOSEAL PLV MONO

ONE-COMPONENT POLYURETHANE THIXOTROPIC SEALANT AT LOW ELASTICITY MODULUS

Description One-component polyurethane sealant for vertical application, at low elasticity modulus.

Advantages and characteristics

- One-component, ready to use
- Rapid polymerization
- High elasticity
- Does not stick and does not keep dust or dirt.
- Easy workability
- Thixotropic
- Good UV resistance
- Good adhesion to substrates in concrete, renders, metal, wood, stone, bitumen, etc.
- Optimal resistance against atmosphere.
- Optimal resistance against chemical substances, such as diluted bases, diesel fuel, kerosene, nafta, diluted acids, aromatic hydrocarbons, demoulding oils.

Fileds of use For elastic sealing of industrial and civil joints having important movements and where atmospheric resistance is needed.

Method of use

Preparation of the substrate

The substrate must be clean and sound. Remove all dirt and incoherent parts manually or mechanically, and remove dust by compressed air. Clean with sandblasting or water-jetting in the case the substrate is contaminated with greases, demoulding oils etc.
In the case the substrate has to be prepared previously, use BS 38 MuCis® two-components. Consult of Technical department for more details or technical problems.
It is recommended to use the primer TECNOFIX EP 40. The product has the action of consolidation and waterproofing of dusted concrete surfaces.
Surfaces not suitable for the TECNOFIX EP 40 are metals such as steel, aluminum, copper or brass, and previously painted surfaces. The application of the sealant should be done not before 6 hours, the time required for the drying of the primer, and not later than 24 hours after application of TECNOFIX EP 40. In the case of very porous surfaces, apply two coats of TECNOFIX EP 40 for stronger consolidation of the substrate. Before application of the sealant the installation in the bottom of the joint of a suited expanded or extruded material of proper dimensions is required. Position it in a manner that its top edge is at a depth equal to half of the width of the joint if this joint width is higher than 1 cm, or at a depth equal to the measure of the width of the joint if this is equal to or less than 1cm. This operation is not necessary when the sealant, besides the two sides of the joint, has no contact with a third rigid wall.

Application method

The application of the product can be done by proper gun for aluminium bags.

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Remarks

- Do not apply at temperatures below + 5°C.
- The substrate to which the product shall be applied shall always have a temperature of 2°C higher than the dew-point in the conditions of application (to avoid condensation which can decrease adhesion).
- Assure yourself before starting the application that the substrate is completely dry.
- Read carefully the instructions on the labels on packaging and eventually ask for the Material Safety Data Sheet.
- Drying process (at +20°C and 65 % R.H.): after 3-4 days from the application, the product has sufficient elastic characteristics to support the joint movements without any permanent deformation and to grant waterproofing.
- Low temperatures slow down the drying process

Packaging/ Colours Bags aluminium/polythene of 600 ml in boxes of 20 pieces
Grey and white on request

Storage 12 months in the original and closed packaging, in dry and protected area between + 5°C and + 25°C.The stocking temperature must not exceed 25°C for long time. Keep away from heat.

Technical characteristics (typical values)

• Chemical nature	Polyurethane
• Way of hardening	It reacts with humidity
• Specific weight	1,40 ± 0,02 Kg/dm^3
• Viscosity	Thyrotrophic paste
• Superficial dry film at 23°C and 50% r.h.	± 120 minutes
• Hardening speed (23°C and 50% u.r.)	≥ 2 mm/24h
• Hardness Shore A (DIN 53505)	± 20
• Elongation to break (DIN 53504)	≥ 600%
• Tensil strength at break (DIN 53504)	Approx 1,5 N/mm^2
• Elasticity modulus at 100% (DIN 52455)	≥ 0,4 N/mm^2
• Elastic recovery (DIN 52458)	≥ 85%
• Practical movement accommodation	± 25% of the total movement capacity
• Temperature of application	from + 5°C to + 35°C
• Temperature resistance	-40°C/+80°C

Safety indications Read carefully the safety indications on the packaging, or consult the relevant Material Safety Datasheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below

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