



UNITECH

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SEALANTS, ADHESIVES & CHEMICALS

JOINT SEALANTS / MASTICS



POLY JOINT 30

PRODUCT DESCRIPTION

The POLY JOINT 30 is a thixotropic, permanent elastic, cold applied and cold curing, one component, low modulus polyurethane elastomer (mastic) used for chalking and joint-sealing.

Cures by reaction with ground and air moisture.

USES

The POLY JOINT 30 is used for:

- Expansion & sealing joints in almost all building substrates
- Joint sealing of interior movement joints.
- Joint sealing of exterior movement joints.
- Crack filling mastic.
- Joints between wooden, metal, aluminium or PVC frames and masonry

CONSUMPTION

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

PACKAGING

POLY JOINT 30 is supplied in 310ml Cartridges and 600ml Aluminium Bags. Bags and Cartridges 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.

ADVANTAGES

- Simple application.
- UV and weathering resistant.
- Resistant to constant movement.
- Resistant to water, heat and frost.
- Maintain its mechanical properties over a temperature span of -30°C to +90°C
- Provides excellent adhesion to most construction materials
- Resistant to detergents, oils, fuels and seawater

COLORS

The POLY JOINT 30 is supplied in white and light grey. Other RAL colors may be supplied on demand.

SAFETY MEASURES

POLY JOINT 30 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.
PROFESSIONAL USE ONLY.

TECHNICAL DATA

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane mastic (pre-polymer)	
Elongation at Break	600%	ISO 8339
Modulus of elasticity (at 100%)	0,20 N/ mm ²	ISO 8339
Elastic recovery	> 70%	ISO 7389
Hardness (Shore A Scale)	20-25	DIN 53505, ASTM D 2240
Application Temperature	50C to 350C	Inhouse Lab
Skin formation time	15 min (at 23°C, 50%RH)	Inhouse Lab
Polymerized thickness after 24 hours	3mm (at 23°C, 50%RH)	Inhouse Lab
VOC content	<50 gr/l	Inhouse Lab
Resistance to flow at 23°C	<3mm	ISO 7390
Resistance to flow at 50°C	<3mm	ISO 7390
Chemical Properties	<p>Good resistance against water, cleaning agents, and accidental spray with oils, hydrocarbons, acidic and basic solutions (10%).</p> <p>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.</p>	

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 POLY JOINT 30 Joint-Sealant on the bottom of the joint only. Then with a brush, apply a stripe layer of POLY TI 150 200mm wide centered over the joint. Place the POLY TI 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 POLY TI 150. 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 POLY JOINT 30 sealant and allow 12 hours to cure.

Priming

Priming is only necessary if adhesion test has shown poor adhesion. In this case prime absorbent surfaces, like concrete, screed and wood with POLY PRIME QUICK primer. Prime non-absorbent surfaces like metal and ceramic tiles with UNI-VERSAL EPOXY 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 POLY JOINT 30 mastic with special pistol by hand or pneumatic guns (maximum required pressure : 3,5 kg).

When applying avoid air entrapment. Smooth with joint nail or putty knife. 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.

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