

Product

ELASTOSTAR T/1

cod. 4778 RAL
9276 0000

Features

COLOURED MULTIPURPOSE WATERPROOFING COATING BASED ON POLYURETHANE ELASTOMERS WITH EPOXY MODIFICATION.

- Thicknesses of up to 1000 microns may be obtained in a single layer.
- Excellent elasticity and abrasion resistance.
- High resistance to immersion in fresh and salt water.
- Good resistance to immersion in medium-aggression waste and industrial water.
- Anti-carbonating.
- Good resistance to atmospheric agents and aggressive atmospheres, including the marine environment.
- Can be applied to the support at + 5°C and over.
- Operating temperature from -30°C to +90°C (in air), or +35°C (in immersion).

Application field

- Protection of concrete structures, including bridges, viaducts, barriers and kerbs.
- Waterproof elastic coating for concrete structures subject to abrasive action, including channels, piping, facings upstream of dams, etc.
- Elastic coating for water purification systems and sewage collectors.
- Waterproofing of roofs and terraces, top surfaces of dams, walkways and ramps, suitable for traffic movement.

Application

Two part product to be mixed immediately prior to use with a mechanical agitator until completely smooth.

ELASTOSTAR T/1 may be applied by brush or airless spray, diluting with 5-10% of DILUENTE 21 thinner.

The airless spray device should have a piston pump with compression ratio of 60:1 and 0.021"-0.025" nozzles.

The pressure at the nozzle should be no less than 200 bar.

The product is applied in one or two layers on compact concrete surfaces in good condition which have been suitably prepared and cleaned in advance.

The suitable primers are DUROGLASS FU BIANCO TIX or DUROGLASS FF 4416, depending on requirements, and following the methods described in the technical notes for those products.

On cement surfaces subject to water counter-thrust and designed to be immersed in water following careful preparation with DUROGLASS FU BIANCO TIX and DUROGLASS FU MALTA, always apply a coat of DUROGLASS FF 4416 with consumption of 150 g/m².

The sealants to be applied beneath structures immersed in water should be formed exclusively with STARMASTIC SK 13 or STARMASTIC P 94.

For anti-slip waterproofing treatments, the following cycle should be adopted:

- preparation and primer
- ELASTOSTAR T/1, consumption 1.5 Kg/m²
- ELASTOSTAR T/1, consumption 0.5 Kg/m²

- Saturation on wet product with 0.3-0.9 mm quartz
Immediately after use, wash the tools with DILUENTE 21 thinner.

Technical data

Color	RAL colors
Specific weight	1.21 ± 0.02 Kg/l
Mixing ratio	100 parts base by weight 16.5 parts hardener by weight
Viscosity at 20°C	18,000 ± 4,000 mPa.s
Pot life at 22°C	60 minutes
Theoretical consumption	405 – 1,350 g/m ²
Thickness	300-1,000 microns
Solids	92% by weight, 89% by volume
Hardening at 22°C, 50% RH	- dry to the touch 10 hours - hardened in depth 24 hours - over-application 16 hours minimum, 48 hours maximum - completely hardened 10 days
Lengthening to breakage* UNI EN 12311-2	150% ± 10
Solids	92% by weight, 89% by volume
Traction resistance* UNI EN 12311-2	> 6 MPa
Tearing resistance* UNI EN 12310-2	> 2 MPa
Shore hardness A ASTM D 2240*	> 80
Resistance to abrasion	Los Angeles modified 10,000 revs <65 mg/100 cm ²
Adhesion to concrete ASTM D 4541	> 3.5 MPa or breakage of concrete
Storage	If kept in the original sealed packs in a dry, protected place at temperatures of +5°C to +35°C, the product will keep for 6 months.

* 2000 micron sheets hardened for 20 days at 22°C + 48 hours at 45°C

All data and prescription reported on the present data sheet are based on the best lab and practical experience and should anyhow be considered as indicative. Considering all different uses and the occurring of situations and conditions independent from MPM (substrate, climate conditions, technical management etc. Those who intend to use the product should verify whether it is suitable for the specific conditions in which it will be applied before starting. MPM's responsibility covers the quality and productions standards referring to the above listed data only. Data should also be verified for latest available version of data sheets which could be surpassed by a new version. Data may change any time without notice from MPM.