



MAXELASTIC® TRANS

TRANSPARENT POLYURETHANE ELASTOMERIC MEMBRANE FOR WATERPROOFING OF ROOFS AND OUTDOOR AREAS

DESCRIPTION

MAXELASTIC® TRANS is a single component liquid product ready to use, based on moisture curing special aliphatic polyurethane resins, that provides a transparent, elastic and waterproofing membrane suitable for long-term protection and waterproofing of concrete, tiles, bricks, wood, stone, glass, etc.

APPLICATION FIELDS

- Transparent and elastic waterproofing for all types of roofs, terraces and balconies subject to pedestrian traffic.
- Waterproofing and protection of transparent covers and roofs made of glass, plastic or polycarbonate.
- Coating and protection against weathering for bricks, ceramic tile and stone masonry in outdoor areas.

ADVANTAGES

- Very high elasticity at both low and high temperature, enabling to absorb thermal movement of substrate with extreme weather conditions as well as vibrations.
- Excellent crack-bridging ability, acting as anti-fracture membrane on substrate.
- It forms a continuous waterproof membrane with no need of joints or connections, and it seals cracks permanently.
- Good abrasion resistance, suitable for pedestrian traffic.
- Withstands UV radiation, it does not turn yellow on outdoor applications.
- Excellent adhesion on common substrates in construction.

- Good chemical resistance to de-icing salts, seawater, wastewater, alkali and acids diluted solutions.
- Permeable to water vapour.
- Withstands a wide temperature range, from – 40 °C to 100 °C.
- Long-lasting protection compared to paints and other coatings, maintenance-free.
- Ready to use and easy applied manually or by airless spray.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be sound, completely dry and clean, free from dirt, remains of paints, gypsum, efflorescence, greases, oil, as well as de-moulding agents, curing agents or any coating, which could affect the adhesion.

All surface damages as defects, cavities, honeycombs, peelings should be repaired with a structural repair mortar such as **MAXREST®** (Technical Bulletin n° 04).

Expansion joints and fissures subject to movements once opened up and clean, should be treated with a suitable sealant such as type **MAXFLEX® 100 LM** (Technical Bulletin n° 63).

Application

MAXELASTIC® TRANS is supplied ready to be applied by brush, roller or airless spray. Apply two coats, with a coverage of 0,5 – 0,6 kg/m² per coat and in perpendicular direction each other. Allow first coat to dry between 10 and 12 hours depending on environmental and ventilation conditions. The total application thickness, in two coats, should be about 1 mm. For vertical applications, product should be applied in three coats for the same total thickness.

On porous substrates, i.e. concrete, render or brick, the first coat can be diluted with 10 – 20% of **MAXSOLVENT®** for better

penetration. On substrates with low or no porosity, i.e. ceramic tiles, vitrified elements, marble, polycarbonate, etc a primer coat of **MAXPRIMER PUR**[®] (Technical Bulletin n° 213) with 0,1 - 0,15 kg/ m² must be applied previously.

For an anti-slip finish surface, before the first coat dries, dusting the area with dry silica sand (up to 1 mm size) with a recommended coverage of 1,0-1,5 kg/m². Once it dries, sweep and vacuum the surface and then, apply the second coat of **MAXELASTIC**[®] **TRANS**.

If a matt finish surface is required, one coat of **MAXELASTIC**[®] **TRANS-M** (Technical Bulletin n° 187) with a recommended consumption of 0,25 l/ m² should be applied on **MAXELASTIC**[®] **TRANS** after it dries between 12 to 24 hours.

Application conditions

Do not apply neither below 5 ° C or when such temperatures are expected to drop within 24 hours. Do not apply **MAXELASTIC**[®] **TRANS** above 90 % of relative humidity.

Curing

Allow a minimum curing time of 3 days at 20 °C and 50 % R.H. before putting into service. Lower temperature or higher R.H. increase the curing time.

Protect application from rain, condensation, dew, humidity or water contact during the first 3 days of curing time.

Cleaning

Use **MAXSOLVENT**[®] for cleaning all tools and equipments immediately after application. Once it cures, product can only be removed by mechanical means.

CONSUMPTION

Coverage is estimated between 0,5 – 0,6 kg/m² approximately per coat, with an average film thickness of 0,5 mm per coat, in order to achieve a total coverage of 1 – 1,2 kg/m² in two coats.

These estimative consumptions may vary depending on substrate conditions and application method. A preliminary test on-site will determine the coverage exactly.

IMPORTANT INDICATIONS

- Surface moisture content must be below 5 % before application. Allow sufficient time for the substrate to dry after rain, dew or other inclement weather and after cleaning surface. If moisture is trapped behind the coating, a white film may develop.
- Do not apply **MAXELASTIC**[®] **TRANS** exposed to rising damp or negative hydrostatic pressure.
- Allow new concrete, pointing mortar or renders to cure 28 days before application.
- Do not exceed recommended thickness per coat during application.
- Do not add any solvent different to **MAXSOLVENT**[®], and do not exceed the ratio recommended.
- For other uses not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXELASTIC[®] **TRANS** is supplied in 1 kg can and 5 kg drum.

STORAGE

Twelve months in its original unopened container in a dry and covered place, protected from humidity, frost and sunlight, with temperatures between 5 °C and 35 °C. Storage at higher temperatures may result in an increase of viscosity.

SAFETY AND HEALTH

MAXELASTIC[®] **TRANS** is a flammable product so all storage, transport and handling precautions must be observed for these kind of product.

Do not smoke in working areas and provide adequate ventilation. Keep away packaging from heat and ignition sources.

Skin and eye contact must be avoided. Safety goggles and protective gloves should be used during application. In case of skin contact, wash affected areas with soap and water. In case of eye contact rinse thoroughly with clean water but do not rub. If irritation persists, consult medical attention.

Safety Data Sheet of **MAXELASTIC® TRANS** is available by request.

Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

TECHNICAL DATA

Characteristics of the product	
Appearance	Transparent liquid
Characteristics for application	
Application conditions, T (°C)/R.H. (%)	> 5 / < 90
Drying time at 20 °C and 50 % of R.H., (h)	10-12
Total curing time at 20 °C and 50 % R.H., (d)	3
Characteristics for cured product	
Elongation at break, ASTM D-412, (%)	320
Tensile strength, ASTM D-412 (MPa)	20,3
Adhesion on concrete, ASTM D-4541 (MPa)	>2,0
Water vapour permeability, EN-ISO 7783 Sd (m, layer of air) / μ	6,2 / 3195
Consumption / Thickness	
Approximate consumption per coat/ total application (kg/m ²)	0,5-0,6/1,0-1,2
Approximate thickness per coat/ total application (mm)	0,5/1,0

GUARANTEE

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