



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 No. 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 No. 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 No. 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 No. 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

Product characteristics		
CE Marking, EN 1504-2		
Description. Transparent, elastomeric liquid membrane for protection of concrete.		
Coating (C).		
Principles/Methods. Protection against ingress with coating (Principle 1-PI / 1.3) and Moisture control with coating (Principle 2-MC / 2.2)		
Appearance and colour	Transparent liquid	
Density, ISO 1675 (g/cm ³)	0,99 ± 0,10	
Application and curing conditions		
Minimum temperature / Relative humidity during application (°C / %)	Ambient:	Substrate:
	> 5 / <85	> 5 / < 5
Waiting time between coats at 20°C, (h)	10-12	
Drying time, 20°C and 50% R. H., (h)	24	
Total curing time at 20°C and 50% R.H. - Pedestrian traffic, (d) - Permanent immersion or flooding test, (d)	3	
	7	
Cured product characteristics		
Vapour water permeability, EN-ISO 7783 V (g/m ² .d) / S _D (m)	6,2 / 3,38	
Adhesion to concrete, ASTM D-4541, (MPa)	> 2,0	
Tensile strength & Elongation at break, ASTM D-415, EN-ISO 37/1994, (MPa/%)	20,3 / 320	
Consumption*		
Thickness per coat / Total application, (mm)	0,5/1,0	
Consumption per coat / Total application, (kg/m ²)	0,5-0,6 / 1,0-1,2	

* Consumption may vary depending on the roughness, porosity and other conditions for both tile and surface. A preliminary test on-site will determine the coverage exactly.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®**, **S.A.U.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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