



MAXELASTIC[®] TRANS -W

WATER-BASED TRANSPARENT POLYURETHANE ELASTOMERIC MEMBRANE FOR WATERPROOFING OF TERRACES AND OUTDOOR AREAS



DESCRIPTION

MAXELASTIC[®] TRANS -W is a one-component liquid product ready to use, based on moisture-curing water-based 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 tiles, marble, clay, metal surfaces, cement mortars and concrete, ceramic, fibre-cement, etc.
- Waterproofing and protection of transparent covers and roofs made of glass, plastic or polycarbonate.
- Coating and protection of bricks, tiles and stone in outdoor areas against weather conditions: acid rain, frost, etc.

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.
- Forms a continuous waterproofing membrane without 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: concrete, mortar, brick, porous ceramic, tiles, metal surfaces, etc.
- Long-lasting protection compared to paints and other coatings, maintenance-free.

- Ready to use and easy applied manually or by airless spray. Does not required skilled applicators. Cold applied, does not need blowtorch for its application.
- Water-based product, solvent-free and non-flammable. Environmentally friendly.

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. For the cleaning and substrate preparation, such as smooth or non-porous substrates, preferably use sand blasting or high-pressure water. Aggressive mechanical methods are not recommended.

Surface damages such as defects, cavities, honeycombs, peelings, unsound areas and fissures without movements, once cleaned and opened up to 2cm minimum depth, should be restored with a structural repair mortar such as **MAXREST[®]** (Technical Bulletin No. 2). Remove all concrete around structural reinforcement affected by corrosion, clean of rust or scale and then, coat with the oxide converter and anti-corrosion protection **MAXREST[®] PASSIVE** (Technical Bulletin No. 12). Non-structural surface steel bars must be cut up to 2 cm depth prior to be covered with structural restoration mortar.

Apply always primer coat by brush or roller **MAXPRIMER[®] PUR -W** (Technical Bulletin No. 530) with consumption 0,15-0,20 kg/m². Allow to be perfectly tack-free, from 4 to 12 hours depending on weather conditions, before applying **MAXELASTIC[®] TRANS -W**.

Application

MAXELASTIC[®] TRANS -W is supplied ready to use, only stir the content of the packaging with a dry and clean tool or preferably by mechanical means with a slow speed electric drill (300-400 rpm) fitted

with a disc mixer until achieving a homogeneous product in colour and appearance.

Apply by short hair roller or brush successive coats of **MAXELASTIC[®] TRANS -W** in perpendicular direction, with a consumption of 0,25-0,3 kg/m² per coat, in 2 or 3 layers depending on the roughness of the substrate, for a total consumption of 0,6-0,9 kg/m², ensuring to create a continuous and uniform coating. Drying time between coats is from 6 to 8 hours, depending on environmental conditions.

For an anti-slip finish surface, before the first coat dries, dusting the area with dry silica sand or glass microspheres **BISEAL[®] MEV** (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 with an estimated consumption of 0,3-0,4 kg/m².

For vertical applications to avoid the lump of the fresh coat, apply in three or four coats (0,0-0,25 kg/m² approx. each) until the same total consumption.

Active fissures: Once the fissure is properly treated with an appropriate sealant as **MAXFLEX[®]** range and after its curing time has finished, apply **MAXELASTIC[®] TRANS** coating reinforced with glass fiber or polyester veil.

Expansion joints: After properly treating and sealing them with **MAXFLEX[®]** products and after their curing time has finished, the joints must not be covered by the coating, respecting their position and avoiding contact with the sealing material.

Application conditions

Do not apply when rain, water contact, condensation or dew is expected within 24 h after application. Do not apply with substrate and/or ambient temperature is at or below 5°C, or when such temperatures are expected to fall below 5°C within 24 hours after application. Do not apply to frozen or frost-covered surfaces.

Ambient and surface temperature must be at least 3°C higher than dew point. Do not apply with R.H. higher than 85 %. Measure the relative humidity and dew point before applying the product for applications carried out in proximities of marine environment.

Curing

Allow a minimum curing time of 48 hours at 20°C and 50 % R.H. before pedestrian traffic and 7 days before flooding test. Lower temperature and/or higher R.H. increase the curing time.

Cleaning

All mixing and application tools must be cleaned immediately with water, after use. Once product cures, this can only be removed by mechanical means.

CONSUMPTION

Consumption is estimated between 0,25-0,3 kg/m² approximately per coat, in order to achieve a total consumption of 0,6-0,9 kg/m² in two or three 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

- Do not apply over substrates exposed to rising damp or negative hydrostatic pressure.
- Surface moisture content must be below 5 % before application. Allow enough 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.
- Allow new concrete, pointing mortar or renders to cure 28 days before application.
- Observe the recommended consumptions per coat.
- For other uses not specified on this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXELASTIC[®] TRANS -W is supplied in 5 kg can and 25 kg drum.

STORAGE

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

SAFETY AND HEALTH

MAXELASTIC[®] TRANS -W is not a toxic product but direct contact with skin and eyes must be avoided. Use rubber gloves and safety goggles during application.

In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXELASTIC® TRANS -W**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics		
<i>CE Marking, EN 1504-2</i>		
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)		
General appearance and colour	One-component, homogenous transparent liquid	
Density, ISO 1675, (g/cm ³)	1,00 ± 0,10	
Flash point	Non-flammable	
Application and curing conditions		
Minimum temperature / Relative humidity during application (°C / %)	Ambient: > 5 / < 85	Substrate: > 5 / < 10
Waiting time between coats at 20°C, (h)	6-8	
Drying time, 20°C and 50 % R. H., (h)	12	
Total curing time at 20°C and 50 % R.H., (d)		
- Pedestrian traffic	2	
- Flooding test	7	
Cured product characteristics		
Tensile strength, ASTM D - 412 (MPa)	14,9	
Elongation at break, EN-ISO 37/1994, (%)	560	
Adhesion to concrete UNE-EN 1542:1999 (N/mm ²)	2,8	
Crack bridging properties UNE-EN 1062-7	Class A5	
Abrasion resistance (Taber Index) (mg)	500 cycles: 8 1000 cycles: 13	
Permeability to CO ₂ , EN 1504-2 EN S _D (m)	71	
Water vapour permeability, EN-ISO 7783-2, S _D (m)	10,05	
Liquid water permeability, EN 1062-3, w (kg/(m ² ·h ^{0.5}))	0,004	
Consumption*		
Consumption per coat / total application, (kg/m ²)	0,25-0,3 / 0,6-0,9	

* These figures are for guidance and may vary depending on porosity, texture and conditions for substrate, and application method. Perform a preliminary test on-site to ascertain the total consumption exactly under jobsite conditions.

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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