



MAXELASTIC[®] PUR

POLYURETHANE ELASTOMERIC MEMBRANE FOR WATERPROOFING ROOFS AND OUTDOOR AREAS



DESCRIPTION

MAXELASTIC[®] PUR is a single component liquid product ready to use, based on moisture curing special polyurethane resins, that provides a high performance waterproof elastic membrane designed for long-term protection and waterproofing of concrete, cement-based mortars, bricks, tiles, etc.

APPLICATION FIELDS

- Elastic waterproofing for roofs, terraces and balconies.
- Waterproofing and protection of water tanks, reservoirs, digesters, etc.
- Bridging, sealing and filling of hairline cracks subject to movements.
- Waterproofing under ceramic tile in indoor or outdoor applications, such as balconies, kitchens, bathrooms, etc.
- Waterproofing of irrigation channels, pipelines, etc.
- Coating and protection of metal tanks or silos, steel pipes, etc.
- External waterproofing for underground concrete structures.

ADVANTAGES

- Very high elasticity at both high and low temperatures, 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.
- Excellent adhesion on common substrates in construction. Does not require special primers.
- Good chemical resistance to de-icing salts, seawater, wastewater, alkali and acids solutions.
- Withstands a wide temperature range, from - 40 °C to 100 °C.
- Good abrasion resistance.
- It is suitable for application at permanent immersion.
- 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

The surface to be coated must be sound, dry and clean, free from dirt, remains of paints, efflorescences, greases, oils, as well as de-moulding agents, curing agents or any coating, which could affect the adhesion. For application on metal surfaces, any rust should be removed.

All surface damages of the concrete such as cracks, cavities and loose particles must be repaired with a structural repair mortar such as **MAXREST**® (Technical Bulletin n°4). Exposed reinforcements must be previously cleaned of rust and treated with the oxide converter and anti-corrosive protection **MAXREST**® **PASSIVE** (Technical bulletin n° 12). Expansion joints and fissures subject to movements, once opened up and clean, should be treated with a suitable sealant such as type **MAXFLEX**®.

Application

MAXELASTIC® **PUR** is supplied ready to use. Previous to application, stir the content of the packaging using a dry and clean tool in order to get a homogeneous paste. **MAXELASTIC**® **PUR** can be applied by brush, roller or airless spray. Apply in two coats with a coverage of 0,5 to 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. Total thickness with both coats should achieve 1mm approximately. On porous substrates, the first coat can be diluted with 10-15 % of **MAXSOLVENT**® for better penetration.

For expansion joints and fissures subject to movements, once **MAXFLEX**® has cured, a first coat with 0,6 kg/m² of **MAXELASTIC**® **PUR** will be applied and then, a strip of 6-8 cm wide glass fibre, with approximately 40-60 g/m², will be spread and completely embedded on this fresh layer. Once it dries, apply the second coat with 0,6 kg/m² of **MAXELASTIC**® **PUR**.

Application conditions

Do not apply neither below 5 °C nor when such temperatures are expected to drop within the first 24 hours after the application.

Do not apply **MAXELASTIC**® **PUR** above 90 % of relative humidity.

Do not apply if rain is expected within the first 24 hours after application.

Curing

Allow a minimum of 72 hours at 20 ° C and 50 % H.R. before putting into service. Lower temperature or higher H.R. increase curing time.

Cleaning

Use **MAXSOLVENT**® for cleaning tools and equipments immediately after application. Once it cures, 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 figures may vary depending on substrate conditions. A preliminary test on-site will determine the coverage exactly.

IMPORTANT INDICATIONS

- Prior to application the humidity content of the surface must not exceed 5%.
- Allow 28 days curing time for new concrete before applying **MAXELASTIC**® **PUR**
- Do not exceed recommended thickness per coat in the application.
- **MAXELASTIC**® **PUR** can be affected by a superficial colour change over a long period of time exposed to UV rays. Therefore, if a permanent aesthetic finish is required an aliphatic polyurethane top coat such as **MAXURETHANE**® **2C** (Technical Bulletin n° 185) can be used.
- For further information, consult our Technical Department.

PACKAGING

MAXELASTIC® PUR is supplied in 25 kg drums. It is available in white, grey, green, red and black colour.

STORAGE

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

SAFETY AND HEALTH

MAXELASTIC® PUR is a flammable product so all storage, transport and handling precautions must be observed for these kind of products.

Do not smoke in working areas and provide adequate ventilation. Keep away packaging from 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. Consult a doctor if irritation continues.

Safety Data Sheet for **MAXELASTIC® PUR** is available by request.

The final user must do disposal of the product and its empty drum according to official regulations.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO®** reserves the right to introduce changes without prior price. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. 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.

TECHNICAL DATA

Characteristics of the product

Appearance	Single component homogeneous paste
Density (g/cm ³)	1,35 ± 0,05

Application conditions / Curing time

Application conditions, T ^a (°C)/R.H. (%)	>5 / < 90
Drying time at 20 °C y 50 % of R.H. (h)	10 - 12
Curing time at 20 °C and 50 % R.H. (d)	3

Characteristics for cured product

Crack-bridging capability, NFT 30/703 (mm)	
Curing for 7 days at 23 °C and 50 % R.H.	5,4
Curing for 3 days at 23 °C and 50 % R.H. & 4 days at -20 °C	8,9

Elongation at break, ISO 37/1994 (%)	852
Tensile strength, ISO 37/1994 (MPa)	3,05

Adhesion on concrete, ASTM D-4541 (MPa)	2,6 (Breaks the substrate)
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Water vapour permeability, EN-ISO 7783 Sd (m, layer of air) / μ	1,16 / 1054
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Approximate consumption per layer/ Thickness

Approximate consumption per layer / total application (kg/m ²)	0,5-0,6 / 1,0-1,2
Approximate thickness per layer / total application (mm)	0,5 / 1,0



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ISO 9001

ISO 14001.



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