



MAXELASTIC[®]

PUR POOL

POLYURETHANE ELASTOMERIC MEMBRANE FOR WATERPROOFING OF SWIMMING POOLS AND RESERVOIRS

DESCRIPTION

MAXELASTIC[®] PUR POOL is a one-component liquid product, ready to use, based on water-based aliphatic polyurethane resins, which provides a high performance, protective and waterproofing elastomeric membrane, with high resistance to UV radiation, suitable for all type of swimming pools and outdoor areas with excellent colour stability. It is characterized by long lasting, total adhered to the substrate and waterproofness on concrete, cement mortars, etc.

APPLICATION FIELDS

- Elastic waterproofing of all types of pools, ponds, basins, etc.
- Waterproofing and long-lasting protection of water tanks, reservoirs, tanks, etc.
- Waterproofing prior to tiling for both indoor and outdoor applications: bathrooms, kitchens, dressing rooms, terraces, etc.
- Waterproofing of irrigation canals and water pipes.

ADVANTAGES

- Very high elasticity at both high and low temperatures. Accommodates movements of substrate due to settlements as well as vibrations, or thermal movements due to extreme weather conditions.
- Excellent crack-bridging capability, acting as anti-fracture membrane when it is applied on substrate.
- Forms a continuous waterproofing membrane without joints or connections, sealing permanently cracks and fitting to the geometry of the substrate.
- Good adhesion on substrates commonly used in construction: concrete, mortar, brick, porous ceramic, tiles, etc.
- Good abrasion resistance and unalterable in permanent immersion applications.
- Long lasting protection compared to paints or other coatings. No maintenance required.

- High colour stability, weathering and UV-resistant. It does not turn yellow.
- Ready to use and easy applied manually (brush, roller, etc.) or mechanically by air-less spray equipments. Does not required skilled applicators. Cold applied.
- Suitable as a decorative finish without maintenance. Available in several colours.
- Environmentally friendly: non-toxic, water-based, non-flammable and solvent-free product.

APPLICATION INSTRUCTIONS

Surface preparation

Substrate to be waterproofed must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. Surface must be clean and free of efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, organic growth or any other contaminants that may affect to adhesion. When surface had previously been coated with paints, lime or acrylic coatings, etc., these must be removed, leaving only the tightly adherent remaining. For cleaning and substrate preparation, preferably in case of smooth and/or poorly absorbent substrates, use sand blasting or high-pressure water cleaning methods, not being desirable aggressive mechanical means.

All voids, honeycombs and non-active cracks, once opened and routed to a minimum depth of 2 cm, must be repaired with structural repair mortar **MAXREST[®]** (Technical Bulletin No. 2). Rebars and other metal elements exposed during the concrete preparation should be cleaned and passivated with **MAXREST[®] PASSIVE** (Technical Bulletin No. 12) and then covered **MAXREST[®]**.

All substrate must be primed with water-based epoxy primer **MAXEPOX[®] PRIMER -W** (Technical Bulletin No. 372) with a consumption of 0,25 a 0,30 kg/m² per coat. Allow primer to be perfectly dry to touch, from 12-24 hours depending on weather conditions, before applying **MAXELASTIC[®] PUR POOL**.

Application

MAXELASTIC® PUR POOL is supplied ready to use. Before application, stir manually the content of the packaging with a clean tool or preferably by a slow speed electric drill (300-400 rpm) fitted with a disc mixer, until achieving a homogeneous product in colour and appearance.

MAXELASTIC® PUR POOL is applied by roller, hard hairbrush or spray methods. When using an air-less spray equipment, if needed, dilute with the minimum amount of water that allows its application.

For use as single waterproofing membrane: on previously primed surface, apply two crossed coats of **MAXELASTIC® PUR POOL** with a consumption of 0,5 to 0,6 kg/m² per coat, i.e. a total consumption from 1,0 to 1,2 kg/m², checking to provide a continuous and uniform coating thickness. Observe a drying-time of 3-6 hours between coats depending on weather conditions. For vertical applications, distribute consumption in three or four layers (from 0,25 to 0,3 kg/m² per coat).

Corners and others outstanding points: On concreting joints, non-active cracks, corners, etc., apply one pure coat of **MAXELASTIC® PUR POOL** of 0,9 kg/m². While this first coat is still fresh, spread a 20 cm wide strip the **DRIZORO® VEIL E-100** polyester veil, or the **DRIZORO® MESH 58** fiberglass mesh, ensuring that it is completely embedded in the coating. Once dry, cover the area with a second coat of **MAXELASTIC® PUR POOL** with the same load.

Active cracks: On expansion joints and active cracks subject to movements, once opened up and clean, seal with a suitable polyurethane-based sealant from **MAXFLEX®** range, and once it has cured completely (4 days at 20°C and 50 % R.H.), proceed as in outstanding points areas, i.e. waterproof coating reinforced with veil or mesh.

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 if rainfall, dew, condensation or water contact is expected within the first 24 hours after application. Optimum application temperature range is from 5°C to 40°C. 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. 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 **MAXELASTIC® PUR** above 85 % of relative humidity. Check relative humidity and dew point before applying in proximities to marine environment. For applications carried out at low temperatures, i.e. less than 10°C, high relative humidity (> 85 %) or marine environment, use the catalyst **MAXELASTIC® PUR CAT -W** (Technical Bulletin No. 438), about 1-2 % by weight per each 22 kg drum of **MAXELASTIC® PUR POOL** in order to speed up the curing process.

Curing

Allow a minimum curing time of 7 days at 20°C and 50 % R.H. before putting into service, performance of flooding tests or covering with tile mortars. Lower temperature or higher R.H. increase the curing time.

Cleaning

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

CONSUMPTION

Estimated consumption for **MAXELASTIC® PUR POOL** is from 0,5 to 0,6 kg/m² per coat, i.e. a total consumption from 1,0 to 1,2 kg/m², applied in two coats.

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

IMPORTANT INDICATIONS

- Do not apply on substrates subject to raising damp or negative water pressure.
- Surface moisture content must be below 5 %. Allow substrate to dry enough after rain, water contact, dew, condensation, etc., as well as after washing surface.
- Allow new concrete and mortars a curing time of 28 days before application.
- Observe recommended minimum and maximum consumption values.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

MAXELASTIC® PUR POOL



PACKAGING

MAXELASTIC® PUR POOL is supplied in 22 kg drum. It is available white, grey, red, green and black colour. Other colours available under request.

STORAGE

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

SAFETY AND HEALTH

MAXELASTIC® PUR POOL 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® PUR POOL**.

Disposal of the product and its empty 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		
General appearance	One-component homogeneous paste	
Colour	White, Grey, Red, Green, Black	
Density	1,05 ± 0,1	
Application and curing conditions		
Application temperature / Relative Humidity, (°C/%)	Ambient 5-40 / < 85	Substrate >5 / <5
Drying-time between coats at 20°C, (h)	3-6	
Waiting time for application on MAXEPOX® PRIMER -W at 20°C, (h)	24	
Drying time, at 20°C and 50 % R.H., (h)	24	
Total curing time at 20°C y 50 % R.H., for permanent immersion or flooding test, (d)	7	
Characteristics for cured product		
Adhesion to concrete, ADTM D-4541, (MPa)	>2	
Tensile strength, ASTM D-412, (MPa)	3,6	
Elongation at break, ASTM D-412, (%)	350	
Consumption*		
Consumption per coat/ total application, (kg/m ²)	0,5-0,6 / 1,0-1,2	

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