



MAXELASTIC® PUR -F

POLYURETHANE COATING FOR PROTECTION OF MAXELASTIC® PUR AND OUTDOOR AREAS

DESCRIPTION

MAXELASTIC® PUR -F is a one component liquid aliphatic polyurethane-based product, that once cured, provides a continuous waterproof and protective coating with excellent resistance to wearing and UV radiation, designed for outdoor applications with colour stability.

APPLICATION FIELDS

- Protection against UV radiation and abrasion for **MAXELASTIC® PUR** at outdoor areas.
- Protection of **MAXELASTIC® PUR** and other waterproofing systems subject to wearing process or car traffic: bridge decks, public parkings, access ramps, warehouses, etc.
- Waterproofing and protection of concrete at outdoor applications.
- Anti-corrosion protective coating with decorative finishing suitable for metal structures; bridges, cooling towers, sewage plants, harbours, etc.
- Chemical protection in permanent immersion: water tanks, swimming pools, aquariums and other water retaining structures.

ADVANTAGES

- Excellent adhesion and compatibility with **MAXELASTIC® PUR**.
- Resistant to weathering and UV-rays. Great colour stability and it does not turn yellow.
- Good chemical resistance to de-icing salt, seawater, wastewater, alkali and acid diluted solution and common parking deck chemicals.
- Resistant to a wide temperature range, from -40 °C to 100 °C.

- Ready to use and easy to apply, manually or by spray methods.
- Suitable as a decorative finishing with long durability.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be sound, dry and clean, free from dirt, old paints, gypsum, efflorescence, greases, oils, as well as de-moulding agents, curing agents or any coating, which could affect the adhesion. Use preferably sandblasting or waterblasting for surface preparation, others mechanical aggressive means are not recommended.

Surface damages such as defects, cavities, honeycombs, peelings and unsound areas should be restored with a structural mortar such as **MAXREST®** (Technical Bulletin n° 4). 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 n° 12).

Metallic surfaces must be degreased, dried and free of dust, cleaned preferably by sandblasting to eliminate superficial corrosion and rust.

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 -F is supplied ready to use. Previous to application, stir the content of the packaging using a dry and clean tool or preferably by mechanical means with a slow speed drill (400–600 rpm) in order to get a homogeneous product.

Over porous substrates, the first layer should be diluted with 10–15 % of **MAXSOLVENT**® for better penetration. For applications over low porosity substrates, glass, glazed tiles, metal, etc apply **MAXPRIMER**® **PUR** (Technical Bulletin 231) as primer.

MAXELASTIC® **PUR -F** is applied in two coats by brush, roller or airless spray with a coverage of 0,20-0,25 kg/m² per coat. Allow first coat to dry between 2 and 4 hours, depending on environmental and ventilation conditions.

For applications by mechanical means, use the minimum amount of **MAXSOLVENT**® suitable for spraying.

*Protective coating against UV radiation over **MAXELASTIC**® **PUR**:* Application must be done after 24 hours of the last coat of **MAXELASTIC**® **PUR**. Apply one or two coats with a coverage of 0,20-0,25 kg/m² per coat, depending on the type of abrasion expected.

Non-slip surface finish. Apply the first coat of **MAXELASTIC**® **PUR -F** with an approximate consumption of 0,25 kg/m². While this coat is still tacky, dust dry and clean silica sand (grain size 0,1–0,5 mm) with an estimated consumption of 1,0–1,5 kg/m². Once this coat is dry (24 hours, depending on temperature and ventilation conditions), sweep and vacuum surface to remove excess sand and then, apply a second coat of pure **MAXELASTIC**® **PUR -F** with a consumption of about 0,3–0,4 kg/m².

Application conditions

Do not apply neither below 5 °C or when such temperatures are expected to drop within the 24 hours. Do not apply on frozen surfaces. Do not apply if rainfall, dew, condensation or water contact is expected within the first 24 hours after application.

Surface and ambient temperature must be at least 3 °C higher than dew point. Do not apply **MAXELASTIC**® **PUR -F** above 85% of relative humidity. Measure the relative humidity and dew point for applications carried out in proximities of marine environment.

In case of applications carried out at low temperatures, i.e. less than 15 °C, high relative humidity (70-85 %) or marine environment, use about 4% of the catalyst **MAXELASTIC**®

PUR CAT per each drum of **MAXELASTIC**® **PUR -F** in order to speed up the curing process.

Curing

Allow a curing time of at least 1 day for pedestrian traffic and 3 days at 20 °C and 50 % R.H., for wheel traffic, permanent immersion or before putting into service. Lower temperature or higher R.H. increase the curing time.

Cleaning

Use **MAXSOLVENT**® for cleaning of tools and equipments immediately after use. Once cured, it can only be removed by mechanical means.

CONSUMPTION

Estimated consumption for **MAXELASTIC**® **PUR -F** is from 0,20 to 0,25 kg/m² approximately per coat, for a total consumption of 0,4–0,5 kg/m² in two coats. For non-slip surface finish, the estimated consumption for the second coat is about 0,3-0,4 kg/m².

These figures may vary depending on porosity, texture, substrate conditions and application method. A preliminary test on-site will determine the coverage exactly.

IMPORTANT INDICATIONS

- Do not apply over substrates subjected to raising dampness or negative hydrostatic pressure. Prior to application, surface moisture content must not exceed 5 %. Allow sufficient time for the substrate to dry after rain, dew, condensation or other inclement weather and after cleaning surface.
- Allow new concrete and mortars a curing time of 28 days before application.
- Avoid any contact with water, humidity, dew, etc., during the first 24 hours of the curing process. Do not apply **MAXELASTIC**® **PUR -F** above 85% of relative humidity. Use **MAXELASTIC**® **PUR CAT** to speed up the curing process with relative humidity close to those values.
- Do not exceed the ratio recommended when mixing with **MAXSOLVENT**® and do not use any other different solvent. Other solvents could modify or inhibit the curing process.

- For other uses do not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXELASTIC® PUR -F is supplied in 10 kg and 20 kg drums. It is available in grey, white, red and green colour.

STORAGE

Twelve months in its original unopened container 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 of viscosity.

SAFETY AND HEALTH

MAXELASTIC® PUR -F is a flammable product so all storage, transport and handling precautions must be observed for this 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. Seek medical attention if irritation persists.

Safety Data Sheet of **MAXELASTIC® PUR -F** 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		
General appearance and colour	One-component, homogeneous coloured liquid	
Density, ISO 1675, (g/cm ³)	1,15 ± 0,10	
Application and curing conditions		
Temperature / Relative humidity, (°C / %)	Ambient	Substrate
	> 5 / <85	> 5 / < 5
Waiting time between coats at 20 °C, (h)	2 – 4	
Drying time at 20 °C and 50% H.R., (h)	24	
Total curing time at 20 °C and 50 % R.H., (d)		
	- Pedestrian traffic	1
- Wheeled traffic, permanent immersion, flooding test	3	
Cured product characteristics		
Abrasion resistance (Taber Index), ASTM D-4060. Wearing index (Abrading wheel: H-22 & Load: 0,5 kg)	500 Cycles	1.000 Cycles
	0,30	0,25
Adhesion to concrete, ASTM D-4541 (MPa)	> 2,0	
Consumption*		
Consumption per coat / per total application, (kg/m ²)	0,2-0,25	0,4-0,5

*These figures may vary depending on porosity, texture, substrate conditions and application method. 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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