



MAXELASTIC®

PUR -FW

WATER-BASED POLYURETHANE COATING FOR PROTECTION OF MAXELASTIC® PUR -HW AND OUTDOOR AREAS

DESCRIPTION

MAXELASTIC® PUR -FW is a water-based, one-component, aliphatic, polyurethane coating suitable for abrasion protection of waterproofing coating **MAXELASTIC® PUR -HW** subject to car traffic or high wearing conditions.

Once applied and cured, **MAXELASTIC® PUR -FW** provides a full elastomeric polyurethane system with high elasticity and excellent abrasion resistance, suitable for outdoor areas exposed to UV-rays and colour stability.

APPLICATION FIELDS

- Abrasion protection against car traffic on **MAXELASTIC® PUR -HW** in parking decks, access ramps, slabs, etc.
- Protection and decorative finish on outdoor floors over concrete, mortars, tiles, fibre-cement, etc., subject to high abrasion conditions and wearing by pedestrian or car traffic.
- Anti-corrosion finish coating on metal structures: bridges, cooling towers, sewage plants, harbours, platforms, etc.

ADVANTAGES

- Excellent adhesion and compatibility on **MAXELASTIC® PUR -HW**. Also, suitable for common substrates in construction: concrete, mortar, porous ceramic tiles, fibre-cement, metal surfaces, etc.
- High abrasion resistance, suitable for car traffic.
- Excellent resistance to weathering and UV-rays. Great colour stability and it does not turn yellow.
- Resistant to a wide temperature range, from -20°C to 100°C.
- Long-term protection in compare with others paints and coatings.
- Easy to apply manually (brush, roller, etc.) or mechanically by air-less spray equipments. Does not required skilled applicators.
- Suitable for decorative finishing with very low maintenance. Available in different colours.

- Water-based, solvent-free, non-flammable, odour-free. Suitable for application in poor ventilated areas. Environmental friendly.

APPLICATION INSTRUCTIONS

Surface preparation

The surface of **MAXELASTIC® PUR -HW** to be coated must be totally clean, dry and free of any contaminant that could affect to the adhesion. Thus, the application of the protective coating must be carried out 24 hours after the last coat of **MAXELASTIC® PUR -HW**. Do not allow to pass more time in order to ensure a perfect adhesion between coats.

Applications over concrete or mortars, the 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. For the substrate preparation, mainly in smooth or non-porous substrates, preferably use sand blasting or high-pressure water in order to obtain an open texture surface. Aggressive mechanical methods are not recommended.

Surface damages such as defects, cavities, honeycombs, peelings, unsound areas and non-active fissures, once cleaned and opened up to 2cm minimum depth, should be restored with a structural repair mortar such as **MAXREST®**. 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**. Non-structural surface steel bars must be cut up to 2 cm depth prior to be covered with structural restoration mortar.

Application

MAXELASTIC® PUR -FW is supplied ready to use. Before application, 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.

Application on MAXELASTIC® PUR -HW:

Apply two coats of **MAXELASTIC® PUR -FW** in perpendicular direction by brush, short hair roller or air-less spray equipment, with a consumption from 0,25 to 0,30 kg/m². Allow to be perfectly dry and tack-free from 6-8 hours depending on temperature and ambient humidity, before applying the second coat with similar consumption.

When using an air-less spray equipment, dilute with the minimum amount of water that allows the flowability of product through the hose.

If an anti-slippery surface finish is required, apply the first coat of **MAXELASTIC® PUR -FW** with an approximate consumption of 0,30 kg/m², and while this coat is still fresh, 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 (6 from 8 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 -FW** with a consumption of about 0,30-0,40 kg/m².

Protection of concrete, mortar, metal and other substrates:

Apply an epoxy primer coat of **MAXEPOX® PRIMER -W**, with a consumption of 0,25 to 0,30 kg/m². Once it is perfectly dry from 12-24 hours, apply **MAXELASTIC® PUR -FW** in two perpendicular coats of 0,20-0,25 kg/m² each, for a total consumption of 0,40 from 0,50 kg/m², and with a drying-time between coats of 6-8 hours depending on environmental conditions.

If an anti-slippery finish is required, once the primer **MAXEPOX® PRIMER -W** is dry, proceed as in previous point "Anti-slippery finish on **MAXELASTIC® PUR -HW**".

Application conditions

Do not apply if 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%.

Curing

Allow a curing time of at least 12 hours for pedestrian traffic and 24 hours for car traffic or flooding test, at 20°C. Lower temperature will increase the curing time.

Cleaning

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

CONSUMPTION

Estimated consumption of **MAXELASTIC® PUR -FW** varies from 0,25 to 0,30 kg/m² per coat for a

total consumption from 0,5 to 0,6 kg/m², applied in two coats.

For anti-slippery finish, the estimated consumption of **MAXELASTIC® PUR -FW** varies from 0,3 to 0,40 kg/m² per coat for a total consumption from 0,7 to 0,8 kg/m², applied in two coats.

These figures are for guidance and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption 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 and mortars a curing time of 28 days before application.
- Avoid contact with rainfall, dew, condensation, water, etc the first 24 hours.
- Observe the recommended consumptions per coat.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXELASTIC® PUR -FW is supplied in 10 and 22 kg drums. It is available in standard colours white, grey, red and green. Other colours by special request.

STORAGE

Twelve months in its unopened and undamaged original sealed packaging. Store in a cool, dry and covered place, protected from moisture, frost and away from 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 -FW is not a toxic product but direct contact with skin and eyes must be avoided. Use rubber gloves and safety goggles when handling, mixing and applying the product. In case of contact with skin, wash affected area with soap and water. In case of contact with eyes, 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 -FW**.

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		
General appearance and colour	One-component, coloured homogeneous paste	
Density, ISO 1675, (g/cm ³)	1,07 ± 0,1	
Application and curing conditions		
Temperature / Relative Humidity, (°C / %)	Ambient:	Substrate:
	> 5 / < 85	> 5 / < 5
Drying-time between coats at 20°C, (h)	6 - 8	
Total curing time at 20°C and 50% H.R., (h)		
- Pedestrian traffic	12	
- Car traffic or flooding test	24	
Consumptions*		
Consumption per coat / total application, (kg/m ²)	0,25 - 0,30 / 0,5 - 0,6	

* 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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