MAXPRIMER® PUR

PRIMER FOR POLYURETHANE-BASED COATINGS ON NON-POROUS SURFACES

DESCRIPTION

MAXPRIMER® PUR is a one-component transparent primer composed of solvent-based silanes, that once applied reacts and acts as a chemical bonding, building binder bridges between substrate and polyurethane-based coatings.

It is designed to improve the adhesion of polyurethane coatings on both low or non-porous substrates such as vitrified elements, gresite, ceramic tile, glass, terrazzo, marble, granite, metal (aluminium, cupper, steel), rigid plastic and polished concrete.

APPLICATION FIELDS

- Priming for ***DRIZORO*** polyurethane-based coating range, such as ***MAXURETHANE® -/TOP/2C, MAXELASTIC® TRANS, MAXELASTIC® TRANS-M***, etc., on substrates with low or no porosity.
- Priming for anti-corrosion coatings on metal surfaces in metal structures, silos, containers, etc.

ADVANTAGES

- Provides an excellent bonding for polyurethane-based coatings on substrates with very low or no absorption.
- No visible application: It does not affect the aesthetic of the surface.
- It does not create any film, allows water vapour diffusion.
- Non-yellowing and it does not change of appearance with weathering.
- Great efficiency and high yield.
- Quick drying.

APPLICATION INSTRUCTIONS

Surface preparation

Surface to be coated must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. It must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion of the product.

Surface moisture content should not exceed 5%. Do not apply on substrates subject to rising damp or negative water pressure.

Before coating application, all small voids, holes, honeycombs, cavities, once opened must be patched with the ***MAXEPOX® CEM*** epoxy-cement mortar (Technical Bulletin No. 197) or with the ***MAXEPOX® JOINT*** epoxy-based mortar (Technical Bulletin No. 237). Cold joints, tie holes, and static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with the ***MAXREST®*** (Technical Bulletin No. 2) structural repair mortar to provide an even surface.

Rebars and other metal elements exposed during the substrate preparation should be cleaned and passivated with ***MAXREST® PASSIVE*** (Technical Bulletin No. 12), while non-structural and surface iron elements must be cut to a depth of at least 2 cm and then covered with a suitable repair mortar.

Steel and other non-porous surfaces:

Metal surfaces should be cleaned to remove all traces of corrosion, and must be degreased, dry and free of dust. Use sand or shot blasting to grade Sa 2½ of Swedish Standards. On metal surfaces pay attention to drying conditions, because oxidation could arise when drying process is not very fast.

Application
MAXPRIMER® PUR is supplied ready to use, and it can applied directly by brush, roller or air-less equipments, in a single coat.

Allow the primer to dry for at least 1 hour, and then apply the following polyurethane-based coating. A longer delay, i.e., about 3 hours, will require to prime surface again.

Application conditions
Do not apply in rain or when rain, contact with water, condensation, dampness and dew is expected within the first 1-3 h after the application.

Optimum application temperature range is from 10 ºC to 30 ºC. Do not apply with substrate and/or ambient temperature is at or below 10 °C, or when are expected to fall bellow 10 °C within 24 h after application. Do not apply to frozen or frost-covered surfaces.

Ambient and surface temperature must be at least 3 ºC higher than dew point. Do not apply with R.H. higher than 90 %. Measure the relative humidity and dew point before applying the product.

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

CONSUMPTION

Estimated consumption for ***MAXPRIMER® PUR*** varies from 0,15 to 0,20 l/m^2.

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

IMPORTANT INDICATIONS

- Do not apply on substrates subject to rising damp or negative water pressure.
- Surface moisture content must be below 5 %. Allow enough time for drying the substrate after rain, contact water, damp, dew, condensation, etc, as well as after preparation of surface.
- Allow new renders and pointing mortars to dry 7 days before priming.
- Do not apply ***MAXPRIMER® PUR*** above 90% of relative humidity.
- Do not add solvents, thinners or other compounds.
- Observe the recommended consumptions per coat.
- For other uses not specified in this Technical Bulletin, further information or questions regarding the application of the product, consult the Technical Department.

PACKAGING

MAXPRIMER® PUR is supplied in 1 litre metal cans and 5 litre metal drums.

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 exposure to sunlight, with temperatures between 5 ºC and 30 ºC.

SAFETY AND HEALTH

MAXPRIMER® PUR 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 rubber goggles and protective gloves should be used when handling, mixing and applying the product. In case of contact with skin, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for ***MAXPRIMER® PUR.***

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	Transparent liquid	
Base	Solvent-based silanes	
Toxicity	Non-toxic	
Application and curing conditions		
Application temperature / Relative humidity, (ºC / %)	Ambient	Substrate
	>5 / <90	>5 / <5
Waiting time before coating at 20 °C, (h)	1 - 3	
Consumption*		
Consumption per application, (l/m^2)	0,15-0,20	

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.

DRIZORO, S.A.U.
C/ Primavera 50-52 Parque Industrial Las Monjas
28850 TORREJON DE ARDOZ – MADRID (SPAIN)
Tel. 91 676 66 76 - 91 677 61 75 Fax. 91 675 78 13
e-mail: info@drizoro.com Web site: drizoro.com

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