



MAXURETHANE®

PRIMER

SOLVENT-FREE POLYURETHANE PRIMER FOR POLYURETHANE COATINGS ON CONCRETE AND POROUS SUBSTRATES

DESCRIPTION

MAXURETHANE® PRIMER is a two-component, solvent-free, polyurethane primer, which has been specially designed to seal surface porosity and ensure the adhesion of polyurethane coatings on concrete and porous substrates.

APPLICATION FIELDS

- Priming for solvent-free polyurethane systems such as **MAXURETHANE® FLEX** and **MAXURETHANE® FLOOR** (Technical Bulletins Nos. 314 and 324, respectively).
- Improvement of surface cohesiveness and adhesion of other polyurethane coatings on porous substrates.

ADVANTAGES

- Seals the voids and porosity of surface, avoiding pinholing and bubbling in later polyurethane coatings.
- Low viscosity, it penetrates easily in porous of concrete.
- Excellent adhesion on concrete and masonry.
- Very good coverage.
- Environmentally friendly: non-toxic, non-flammable and solvent-free product. Suitable for poor ventilated areas.

APPLICATION INSTRUCTIONS

Surface must be structurally sound, firm, without cement laitance, 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 the adhesion.

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

For cleaning and surface preparation, preferably in case of the smooth and/or poorly absorbent substrates, provide a mechanical texturing by

abrasive disc, dry sand-blasting, scarification or other abrasive method to achieve at least a slightly textured surface, not being desirable aggressive mechanical or chemicals means. Finally, vacuum the dust and loose particles.

Voids, cold joints, static cracks or any other defect deeper than 10 mm, once opened and routed must be repaired with patching mortar **MAXREST®** (Technical Bulletin No. 3) or **MAXROAD®** (Technical Bulletin No. 27)

Expansion joints and active fissures/cracks subject to movements, once opened must be sealed with a suitable sealant of **MAXFLEX®** range.

Mixing

MAXURETHANE® PRIMER is supplied as a pre-weighed two-component set. Premix the components separately, and the hardener, component B, is poured into the resin, component A.

Mix manually or preferably using a low speed drill (300-400 rpm. maximum), fitted with a mixer suitable for liquids, for about 2-3 minutes until achieving a homogeneous product in colour and appearance.

Do not mix for prolonged period nor use high-speed mixer, which may heat the mixture or introduce air bubbles.

Check Technical Data Table for product pot life. This value is greatly reduced with hot temperatures (> 30 °C).

Application

Apply one coat of **MAXURETHANE® PRIMER** by roller or brush with a recommended consumption of 0,25-0,30 kg/m². In case of excessive voids on surface and/or high porosity, a second coat may be required to obtain a perfectly sealed surface once the first one is dry.

Application of **MAXURETHANE® FLEX** and **MAXURETHANE® FLOOR** can be done once **MAXURETHANE® PRIMER** is perfectly dry, from 14-16 hours and no later than 24 hours preferably, depending on weather and ventilation conditions.

Application conditions

Do not apply when rain, water contact, condensation, dampness or dew is expected within 24 hours.

Do not apply with substrate and/or ambient temperature is at or below 10 °C, or when are

expected to fall below 10 °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. Measure the relative humidity and dew point before applying the product. With low temperatures, high humidity levels or both, use dry and warm air in order to get the suitable conditions, such as with an electric powered air blower system. Temperatures above 30 °C lead a quick-setting between components and heat production, so the pot life is greatly reduced.

Cleaning

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 **MAXURETHANE**® **PRIMER** varies from 0,25-0,30 kg/m² per coat. These figures are for guidance only and may vary depending on porosity, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- Surface moisture content of substrate must not exceed 5%. Do not apply on substrates subject to rising humidity or negative water pressure.
- Avoid contact with water, damp, dew, condensation, etc., the first 24 hours after application.
- Allow new concrete and mortars to cure for 28 days before application.
- Do not add solvents, thinners, additives, aggregates, or other compounds.

- Use the recommended mixing ratios for all compounds.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXURETHANE® **PRIMER** is supplied in pre-weighed two-component set of 25 kg.

STORAGE

Nine 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. Temperatures below 5 °C may lead the crystallisation of product components. Should this happen, it must be heated slowly at moderate temperature while it is regularly stirred until achieving its homogeneous and original lump-free appearance.

SAFETY AND HEALTH

MAXURETHANE® **PRIMER** 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 **MAXURETHANE**® **PRIMER**. 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 for A+B mixture	Red liquid
Solids content A+B , (% , by weight)	100
A:B mixing ratio, (by weight)	4:1
Application and curing conditions	
Minimum application temperature	>10
Pot life at 10 °C/ 20 °C/ 30 °C, (min)	25-30 / 20-25 / 15
Open time between coats at 20 °C, (hours)	14 -16 (min.) to 24 (max.)
Consumption	
Consumption per coat, (kg/m ²)	0,25 - 0,30

GUARANTEE

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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

