



MAXURETHANE[®]

CEM PRIMER

POLYURETHANE-CEMENT PRIMER FOR MAXURETHANE[®] CEM SYSTEM COATINGS



DESCRIPTION

MAXURETHANE[®] CEM PRIMER is a three-component, solvent-free, polyurethane-cement based primer, specially designed as a bonding and sealing agent for porous surfaces to enhance the adhesion of the **MAXURETHANE[®] CEM** polyurethane-cement system.

APPLICATION FIELDS

Priming and sealing of the surface porosity for **MAXURETHANE[®] CEM** system application on concrete and cement mortars in chemical and food industry, etc.

ADVANTAGES

- Reduce surface porosity, avoiding pinholing and bubbling in polyurethane-cement based systems.
- Excellent adhesion. Excellent adherence on concrete and cement mortars.
- High coating capability and high performance.
- Improvement of cohesiveness and mechanical properties of floor surfaces.
- Environmentally friendly: solvent-free and non-flammable product. Suitable for use in poor ventilated areas.

APPLICATION INSTRUCTIONS

Surface preparation

Surface must be structurally sound, firm, without cement laitance and as uniform as possible, and preferably with a slight roughness, i.e. open textured surface. Minimum bond strength of substrate must be above 1,5 N/mm². It must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents; formworks release agents, dust, gypsum plasters, organic growth or any other contaminant. Surface moisture content should not exceed 8 %.

For surface preparation and cleaning, preferably in case of smooth and/or poorly absorbent substrates, use sand blasting cleaning methods, not being desirable aggressive mechanical or chemical means.

Voids, holes, honeycombs, cavities, cold joints, and static cracks without movement or any others defects deeper than 10 mm, once opened and routed must be repaired with patching mortar **MAXROAD[®]** (Technical Bulletin No. 27) or structural repair mortar **MAXREST[®]** (Technical Bulletin No. 2).

Mixing

MAXURETHANE[®] CEM PRIMER is supplied as a pre-weighed three-component set. Premix the components A and B separately, and then the hardener, component B, is poured into the resin, component A. In order to ensure the proper reaction of the two components make sure all of component B is added.

Mixing 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. Finally add the compound C and mix mechanically during another 2 or 3 minutes. Do not mix for prolonged period nor use high-speed mixer, which may heat the mixture and introduce air bubbles. Check Technical Data Table for product pot life (15 minutes at 20°C).

Application

Apply **MAXURETHANE[®] CEM PRIMER** with a consumption from 1,0 to 1,5 kg/m² in 1 mm thickness layer, by brush type **MAXBRUSH** onto prepared concrete surface, taking care to avoid excess build or puddling and pressing slightly in order to fill all voids and pores with special care in vertical surfaces, encounters, outstanding points and limits of application areas.

Immediately after application, sprinkle **DRIZORO[®] SILICA 0308** until the surface is completely covered, with an estimated consumption of 1,0-1,5 kg/m². Once dry (after 8-10 hours), remove any loose aggregate by vacuuming or sweeping.

Application conditions

Do not apply when rain or dew is expected within the first 24 hours after application. Do not apply with substrate and/or ambient temperature is at or below 5°C, or when temperatures are expected to fall below 5°C within 24 h after application. Do not apply to frozen surfaces.

Ambient and surface temperature must be at least 3°C higher than dew point. Do not apply with R.H. higher than 85 %. Measure the relative humidity and dew point before applying close to marine environment.

With low temperatures and/or high humidity levels, 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. Avoid applications in areas exposed directly to sunlight at high temperatures.

Curing

Allow at least 24 hours of curing before applying the **MAXURETHANE® CEM** layer selected.

Cleaning

All tools and equipments must be cleaned immediately with **MAXSOLVENT®** after use. Once product hardens, it can only be removed by mechanical means.

CONSUMPTION

Estimated consumption of **MAXURETHANE® CEM PRIMER** is from 1,0 to 1,5 kg/m² per coat.

Consumption may vary depending on porosity, texture, substrate conditions and application method. A preliminary test on-site will determine the total consumption exactly.

IMPORTANT INDICATIONS

- Do not apply on substrates subjected to rising humidity. Surface moisture content should not exceed 8 %. Allow enough time to dry the substrate after rain, dew, condensation or other inclement weather, and after cleaning of surface.

- Allow the recommended drying time before applying the **MAXURETHANE® CEM** final coat selected.
- Do not exceed the consumption and thickness recommended per layer.
- Allow new concrete and mortar to cure a minimum of 28 days before applying the primer.
- Do not add solvents, aggregates, admixtures or any other compounds.
- For further information and other uses not specified in this Technical Bulletin, consult our Technical Department.

PACKAGING

MAXURETHANE® CEM PRIMER is supplied in pre-weight three-component set of 41,3 kg. (A:7,5 kg; B:8,8 kg; C:25 kg).

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 from 5°C to 35°C.

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

SAFETY AND HEALTH

MAXURETHANE® CEM PRIMER is not a toxic product but direct contact with skin and eyes must be avoided. Use rubber gloves and safety goggles when mixing and applying the product. 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® CEM 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	
<i>CE Marking, UNE-EN 13813</i>	
Description: Polymer modified cementitious screed material. EN 13813 CT-C40-F20	
Uses: Cementitious primer for screed for applications as a wearing surface	
Appearance and colour for component A	Milky liquid
Appearance and colour for component B	Brown liquid
Appearance and colour for component C	White powder
Density A (g/cm ³)	0,99±0,01
Density B (g/cm ³)	1,23±0,01
Density C (g/cm ³)	1,25±0,01
Mixing ratio (by weight) A:B:C	7,5 : 8,8 : 25
Density fresh primer, A+B+C, (g/cm ³)	1,68
Density cured primer A+B+C, (g/cm ³)	1,65
Application and curing conditions	
Minimum application temperature / Relative Humidity for application (°C / %)	Ambient and support
	10 – 30 / 85
Pot life at 20°C, (min)	15
Setting time at 20°C (min)	180 - 240
Waiting time before covering at 20°C, (h)	24
Characteristics for cured product	
Compressive strength at 28 days, EN 13892-2 (N/mm ²)	45,8 – C40
Flexural strength at 28 days, EN 13892-2 (N/mm ²)	21,2 – F20
Wear resistance BCA, EN 13892-4 (µm)	AR 0,5
Elastic modulus, EN ISO 178 (kN/mm ²)	E2
Impact resistance, EN ISO 6272 (N·m)	IR 14,7
Adhesion on concrete at 28 days, EN 13892-8 (N/mm ²)	B2,0
Consumption*	
Consumption per coat, (kg/m ²)	1,0-1,5

* Consumption may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to determine the 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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