DRIZORO® Construction Products

MAXEPOX® PRIMER

SOLVENT-FREE EPOXY PRIMER/SEALER FOR EPOXY, POLYURETHANE AND POLYUREA SYSTEMS

DESCRIPTION

MAXEPOX® PRIMER is a two-component, solvent-free epoxy primer, which has been specially designed to ensure the adhesion and sealing substrate prior to epoxy, polyurethane and polyurea systems.

APPLICATION FIELDS

- Priming for epoxy flooring systems such as ***MAXEPOX® 3000***, ***MAXEPOX® FLOOR***, ***MAXEPOX® FLEX***, and ***MAXEPOX® MORTER*** (Technical Bulletins Nos. 36, 239, 165, and 76, respectively).
- Primer for waterproofing and flooring systems, based on polyurethane coatings or polyurea (cold/ hot applied) coatings.
- Primer for self-levelling cementitious mortars, cement screeds, concrete repairs and new concrete slabs.
- Transparent sealing and anti-dust finish on cement mortars, concrete floors, epoxy screeds or multi-layer resin systems in warehouses, industrial facilities, garages, etc.

ADVANTAGES

- Low viscosity, it penetrates easily in porous and capillarity network of concrete.
- Excellent adhesion on concrete, mortar, metal, ceramic, etc.
- It seals surface porosity, avoiding the appearance of pinholes and bubbles in self-levelling systems.
- Improvement of cohesiveness and mechanical properties of floor surfaces.
- Very good chemical resistance to diluted bleach, acids and alkalis, brine, wastewater, and both mineral and organic oils.
- Environmentally friendly: non-toxic, non-flammable and solvent-free product. Suitable for poor ventilated areas.

APPLICATION INSTRUCTIONS

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 dry, 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. Surface moisture content should not exceed 5 %.

Consult our technical note "*Preparation of concrete surfaces for application of epoxy-based coatings"* for further information.

For cleaning and preparing the substrate, preferably in case of the smooth and/or poorly absorbent concrete and cement mortars, 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.

All small voids, holes, honeycombs, cavities, once opened must be patched with epoxy-cement mortar ***MAXEPOX® CEM*** (Technical Bulletin No. 197) or epoxy-based mortar ***MAXEPOX® JOINT*** (Technical Bulletin No. 237). Loose concrete and static cracks without movement, once opened and routed to a minimum depth of 2 cm, must be repaired with ***MAXREST®*** (Technical Bulletin No. 2) 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 ***MAXREST®***.

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

Mixing

MAXEPOX® PRIMER is supplied as a pre-weighed two-component set. Premix the components separately, and then 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. Temperature above 30°C leads a quicker drying-time between components and heat production, so the pot life is greatly reduced.

Application

As primer:

Apply one coat of ***MAXEPOX® PRIMER*** using a roller or brush with a recommended consumption of 0,25-0,50 kg/m^2, depending on substrate porosity. Placing of the next coats should be carried out once ***MAXEPOX® PRIMER*** is perfectly dry and tack-free from 14-16 hours depending on weather conditions.

On irregular substrates or with high porosity, to seal the surface a second coat may be required once it is dry the previous one.

As transparent sealer:

Apply by short hairbrush or short pile roller one coat of ***MAXEPOX® PRIMER*** transparent version, on top of cement screeds, concrete or epoxy mortar ***MAXEPOX® MORTER***, with an approximate consumption of 0,25-0,50 kg/m^2, depending on substrate porosity and desired finish.

Application conditions

Do not apply when rain, water contact, condensation, dampness or dew is expected within the first 24 hours. Temperature application is between 10°C to 35°C. Do not apply with substrate and/or ambient temperature is below 10°C, or when is expected to fall below 10°C within 24 h after application.

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 the product, mostly in coastal areas.

With low temperature and/ or high relative humidity, use dry and warm air in order to get the suitable ambient conditions, such as with an electric powered air blower system (do not use hot air from gas or petroleum combustion sources).

Curing

Allow ***MAXEPOX® PRIMER*** to dry for at least 12 to 16 hours at 20°C and 50 % R.H. before applying next coats. Applications at lower temperature and/or higher R.H. humidity conditions require longer drying times.

Cleaning

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

CONSUMPTION

Estimated consumption of ***MAXEPOX® PRIMER*** varies from 0,25-0,5 kg/m^2 per coat, applied as primer or as sealer coat.

These figures are for guidance only 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

- Substrate moisture content must not exceed 5 %. Do not apply on substrates subject to rising humidity or negative water pressure. Allow substrate to dry enough after water contact, dew or cleaning surface.
- Avoid contact with water, damp, dew, condensation, etc for 24 hours after application. Do not apply with R.H higher than 85 %.
- 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 between both components.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXEPOX® PRIMER is supplied in pre-weighed two-component set of 20 kg. It is available in both grey colour and transparent version.

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 between 5°C and 30°C. Storage at

high temperatures may result in an increase of viscosity.

Storage at low temperatures below 5°C may lead the crystallisation of both 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

MAXEPOX® 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 ***MAXEPOX® PRIMER.***

Disposal of the product and its empty 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	Homogeneous liquid in grey colour or clear
Solids content A+B mix, (%, by weight)	100
Ratio A:B	4:1
Density for A+B mix at 20°C, (g/cm^3)	1,10 ± 0,1 (transparent version) 1,30 ± 0,1 (grey colour)
Viscosity for A+B mix at 20°C, (mPa·s)	600 - 700
VOC´s content	None
Flash point (°C)	Non-flammable
Application and curing conditions	
Minimum application temperature	>10
Pot life at 10°C / 20°C / 30°C, (min)	25-30 / 20-25 / 15-20
Drying-time for next coats at 20°C, (hours)	14 - 16
Total curing time at 20°C, (days)	7
Consumption*	
Consumption as primer, (kg/m^2) Consumption as sealer topcoat, (kg/m^2)	0,25 - 0,50 0,25 - 0,50

* These figures are for guidance only 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.

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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