MAXPRIMER®

SOLVENT-BASED EPOXY PRIMER/SEALER FOR EPOXY FLOORING SYSTEMS

DESCRIPTION

MAXPRIMER® is a two-component, transparent, solvent-based epoxy primer, which has been specially designed to ensure and enhance the adhesion for epoxy flooring systems on concrete.

APPLICATION FIELDS

- Priming for solvent-free epoxy flooring systems such as ***MAXEPOX***® ***3000***, ***MAXEPOX***® ***FLOOR*** and ***MAXEPOX***® ***MORTER*** (Technical Bulletins Nos. 36, 239, and 76, respectively).
- Sealing of epoxy screed mortars and multy-layer systems composed of ***MAXEPOX***® ***MORTER***.
- Transparent impregnation and sealing of porous mortars and concrete floors in warehouses, industrial facilities, garages, etc.
- Anti-dust finish for concrete floors.

ADVANTAGES

- Allows the immediate application of the finishing coat.
- Reduce surface porosity, avoiding pinholing and bubbling in the epoxy flooring systems.
- Excellent adhesion to concrete.
- Good coverage.

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 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 of the product. 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.

Before primer 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.

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

Mixing
MAXPRIMER® 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. 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.

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 (60 minutes at 20° C for a 10 kg set). This value increases with lower temperatures or small quantities of mixture, and reduces with higher temperatures.

Application

Priming:

Apply a coat of ***MAXPRIMER***® using a roller or brush with a recommended consumption from 0,25 to 0,30 kg/m^2 onto prepared concrete surface, taking care to avoid excess build or puddling and then, place the epoxy-based coating as follow:

a) Immediate placing: After 30 minutes applied the primer, ***MAXEPOX***® ***3000***, ***MAXEPOX***® ***MAXFLOOR*** or ***MAXEPOX***® ***MORTER*** is placed. This time period is required to release the solvent, but it varies with temperature and ventilation conditions.

b) Placing the epoxy system the following day: In this case, do not exceed 24 hours after primer. If the substrate is very porous, a second coat of ***MAXPRIMER*** might be possibly necessary, and then proceed as indicated under a).

Pure seal coating:

On top of ***MAXEPOX***® ***MORTER*** mortar, apply a coat of ***MAXPRIMER***® by short hairbrush or short pile roller with an approximate consumption from 0,1 to 0,3 kg/m^2. Greater coverage to get higher thickness is not recommended so in that case ***MAXEPOX***® ***MORTER*** should be used.

Application contidions

Do not apply in rain or when rain, contact with water, condensation, dampness and dew is expected within the first 72 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. lower than 30 % or higher than 80 %. 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 ºC lead a quick-setting between components and heat production, so the pot life is greatly reduced.

Curing

Allow ***MAXPRIMER***® to cure for at least 5 days at 20 °C and 50% R.H. before putting into service to heavy traffic. Applications at lower temperatures, high humidity and/or poor ventilation conditions require longer drying and curing 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 for ***MAXPRIMER***® varies from 0,20 to 0,30 kg/m^2 per coat, applied as primer, and from 0,10 to 0,30 kg/m^2 per coat, applied as pure seal coating.

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 under jobsite conditions.

IMPORTANT INDICATIONS

- For interior use only. Under sun light exposure, some colour variations or discolouration can take place.
- 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 for at least 72 hours after application. Relative humidity must not exceed 80%. If so, an improper curing or loss of colour intensity may happen.
- 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.
- 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® is supplied in pre-weighed two-component sets of 10 kg and 20 kg.

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.

Storage at temperatures bellow 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

MAXPRIMER® 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 ***MAXPRIMER***®***.***

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		
A:B mixing ratio, (by weight)	2,33:1	
Application and curing conditions		
Application temperature / Relative humidity, (ºC / %)	Ambient	Substrate
	10-30 / 30-80	>10 / <5
Pot life at 10 ºC/ 20 ºC/ 30 ºC, (min)	100 / 60 / 30	
Drying-time to touch at 20 ºC, (hours)	6 - 8	
Time between coats at 20 °C, (hours)	Max. 24	
Consumption*		
Consumption per application as priming, (kg/m^2) Consumption per application as pure seal coating, (kg/m^2)	0,20 - 0,30 0,10 – 0,30	

* 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 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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