



# MAXEPOX<sup>®</sup>

## PRIMER -AC

### SOLVENT-FREE AND GRAPHITE BASED EPOXY PRIMER FOR CONDUCTIVE FLOORING SYSTEMS



#### DESCRIPTION

**MAXEPOX<sup>®</sup> PRIMER -AC** is a two-component, solvent-free, graphite-based epoxy primer, which has been specially designed to ensure and enhance the performance for epoxy conductive flooring systems.

#### APPLICATION FIELDS

- Priming as conductive layer for **MAXEPOX<sup>®</sup> FLOOR -AC**.
- Primer for high mechanical and chemical resistances flooring systems with requirement of high conductivity; operating rooms, clean rooms or facilities for electronic industry.
- Areas where, besides pavement conductivity, cleanliness and other industrial requirements are mandatory.

#### ADVANTAGES

- High conductivity.
- Low viscosity.
- Excellent adhesion to concrete.
- Good coverage.
- Environmentally friendly: solvent-free, odor-free and non-flammable product.

#### APPLICATION INSTRUCTIONS

##### Mixing

**MAXEPOX<sup>®</sup> PRIMER -AC** 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. To ensure the proper reaction of the two components, be sure to pour all of Component B.

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 the Technical Data table for product Pot Life. This value is greatly reduced with hot temperatures.

##### Application

Apply one homogeneous and continuous coat of **MAXEPOX<sup>®</sup> FLOOR-M** or **MAXEPOX<sup>®</sup> PRIMER -W** using a roller or brush with a recommended consumption of 0,25 kg/m<sup>2</sup>, taking care to avoid excess build or puddling.

Once primer has dried (12 to 24 hours depending on the ambient temperature and humidity), the self-adhesive copper bands are placed following a pattern ensuring that the maximum distance between conductors is not greater than 3 meters (3x3 m). Finally, the copper bands are connected to an already installed earth electrode.

Next, the **MAXEPOX<sup>®</sup> PRIMER -AC** graphite-based conductive epoxy primer is applied with a consumption of 0,10-0,12 kg/m<sup>2</sup>, taking care to avoid excess build or puddling, on the previously and properly primed concrete surface with the copper bands connected to the earth electrodes.

Allow the drying for the **MAXEPOX<sup>®</sup> PRIMER -AC** conductive primer, then proceed with the conductive epoxy coating, **MAXEPOX<sup>®</sup> FLOOR -AC**, applied with a consumption of 2,5 kg/m<sup>2</sup>.

##### Application conditions

Do not apply when rain, water contact, condensation, dampness or dew is expected within the first 72 hours. Optimum working temperature range is from 15°C to 30°C. Do not apply with substrate and/or ambient temperature is at or below 15°C, or when are expected to fall below 15°C within 24 h after application. Do not apply to frozen or frost-covered surfaces.

Ambient and surface temperature must be at least 3°C higher than dew point. Do not apply with R.H. lower than 30 % or higher than 75 %. Measure the

relative humidity and dew point before applying the product.

With low temperatures, high humidity levels or both, use dry and warm air 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.

## **Curing**

Allow **MAXEPOX® PRIMER -AC** to cure for at least 7 days at 20°C and 50 % R.H. before putting the into service. Applications at lower temperatures, high humidity and/or poor ventilation conditions require longer drying and curing times. At temperatures above 30°C, protect the application from direct exposure to the sun.

## **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 **MAXEPOX® PRIMER -AC** varies from 0,10 to 0,12 kg/m<sup>2</sup> per 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**

- For interior use only.
- Do not apply on substrates subject to rising humidity or negative water pressure. Surface moisture content of substrate must not exceed 5 %. Allow sufficient time for the substrate to dry after rain, dew condensation or other inclement weather, and after cleaning for substrate.
- Allow new concrete and mortars to cure for 28 days before application.
- Do not apply with relative humidity greater than 85 %, as this may lead to bad curing.
- Do not add solvents, thinners, additives, aggregates, or other compounds.
- Use the recommended mixing ratios for all compounds.

- Observe the recommended consumptions per coat.
- Avoid contact with water, damp, dew, condensation, etc. for 72 hours after application.
- For other uses not specified on this Technical Bulletin or further information, consult the Technical Department.

## **PACKAGING**

**MAXEPOX® PRIMER -AC** is supplied in pre-weighed two-component set of 12 kg. Component A: 10,45 kg and Component B: 1,55 kg.

## **STORAGE**

Six 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 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**

**MAXEPOX® PRIMER -AC** 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.

Not inhale vapours produced during heating or combustion. Observe the usual precautions necessary for the application of this type of products.

Consult the Material Safety Data Sheet for **MAXEPOX® PRIMER -AC**.

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	
CE Marking, UNE-EN 13813 Description: Self-leveling paste for pavements. UNE-EN 13813 Intended Uses: Mortars for slabs	
General appearance and colour for Component A	Black homogeneous paste
General appearance and colour for Component B	Yellowish liquid
General appearance and colour for A+B mixture	Black liquid
Mixing ratio A:B, (w:w)	6,69:1
Solids content for A+B mixture, (%)	> 20
Density for A+B mixture at 20 °C, (g/cm <sup>3</sup> )	1,05 ± 0,1
Flashing point	Non-flammable
Application and curing conditions	
Minimum application temperature, (°C)	> 10
Pot life at 60°C, (min)	60
Curing time at 20°C, (days)	
- Pedestrian traffic	1
- Wheeled traffic	3
- Totally resistant to heavy traffic and chemical exposure	7
Cured product characteristics	
Electrical resistance to ground, DIN IEC 61340-4-1 / 5/1/2, (Ohm)	<10 <sup>5</sup> Ω
Compressive strength to 28 days, EN 13892-2 (N/mm <sup>2</sup> )	40,7 – C40
Flexural strength to 28 days, EN 13892-2 (N/mm <sup>2</sup> )	39,7 – F30
Wear resistance BCA, EN 13892-4 (µm)	20
Impact resistance and height of first cracks, EN ISO 6272 (N·m - mm)	IR 24,5 – 2500
Bond strength, EN 13892-8 (N/mm <sup>2</sup> )	4,0
Consumption/Thickness for conductive flooring system*	
Epoxy primer: <b>MAXEPOX® FLOOR -M</b>	
- Consumption, (kg/m <sup>2</sup> )	0,25
Pattern for copper bands	3 x 3 m
Graphite-based conductivity primer: <b>MAXEPOX® PRIMER -AC</b>	
- Consumption, (kg/m <sup>2</sup> )	0,10 - 0,12
Self-levelling conductivity coating: <b>MAXEPOX® FLOOR -AC</b>	
- Recommended thickness per application, (mm)	1,3-1,5
- Consumption, (kg/m <sup>2</sup> )	2,5

\* 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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