

# Primer CC 200

## Two-component epoxy primer for oil contaminated cementitious surfaces

### WHERE TO USE

**Primer CC 200** is a special primer specifically formulated for oil contaminated cementitious surfaces and it is applied (after the substrate has been adequately prepared) to improve the adhesion of protective epoxy and polyurethane resin coatings on concrete industrial floor and cementitious substrates in general.

### Some application examples

- Adhesion promoter for epoxy and polyurethane coating in general.
- Adhesion promoter for self-levelling and broadcast systems.
- Adhesion promoter for resin mortar screeds.

### TECHNICAL CHARACTERISTICS

**Primer CC 200** is a special two-component, epoxy resin-based anchoring primer according to a formula developed in the MAPEI Research & Development laboratories. It is used for priming oil-contaminated cementitious surfaces, after the substrate has been adequately prepared.

Due to its special formulation, **Primer CC 200** acts as a barrier to stop oil capillary rise.

**Primer CC 200** is resistant to water, seawater, effluent water, saline solution, mineral oils, lubricants and fuel spills.

### RECOMMENDATIONS

- Do not apply **Primer CC 200** on dusty, crumbling or weak substrates.
- Do not apply **Primer CC 200** on substrates that are not properly prepared.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not expose the mixed product to sources of heat.
- If rooms where the product is being used need to be warmed up, do not use heaters that burn fossil fuels. The carbon dioxide and water vapour given off into the air will affect the finish of the coating. Use electric heaters only.
- Protect the product from water for at least 24 hours after application.
- If more than one coat of finish is applied, do not exceed the maximum recommended re-coat time to guarantee optimum adherence of the coating. If this time is exceeded, the surface must be roughened mechanically before applying the next coat.
- Do not apply **Primer CC 200** on substrates with capillary rising damp (please consult our Engineering department).

- Do not dilute **Primer CC 200** with organic solvents.
- The temperature of the substrate must be at least 3°C above the dew-point temperature.
- Once the surface has been prepared as specified, apply an even coat of **Primer CC 200** with a smooth spreader, a roller or paintbrush on concrete substrates.

## APPLICATION PROCEDURE

### Substrate preparation

The compressive strength of the substrate must be at least 25 N/mm<sup>2</sup> and its tensile strength must be at least 1.5 N/mm<sup>2</sup>. The strength of the substrate must also be suitable for its final use and the types of load acting on the floor.

The level of moisture in the substrate must be a maximum of 4% and there must be no capillary rising damp (check by testing it with a sheet of polythene).

All surfaces to be treated must be prepared as specified and be clean, sound and compact.

Remove any loose or detached areas from the substrate and all traces of cement laitance, dust, paint and any old coating that is not well bonded to the surface by shot-blasting or scarifying. Remove all contaminants where possible using suitable cleaning methods and products.

Particularly smooth and compact substrates will require more thorough preparation with power tools. Immediately after preparing the substrate, dampen the surface and apply **Primer CC 200**; the surface should be damp without standing water.

### Preparation of the product

**Primer CC 200** is a primer made up of two pre-dosed components. Prepare the product according to the following procedure: pour component B into the container of component A and mix the two components together carefully with a low speed electric mixer with a mixing attachment for at least 2 minutes until an homogenous mix has been obtained.

### Application of the product

Apply **Primer CC 200** immediately after preparing and cleaning the surface to minimise the amount of any remaining oil in the substrate rising to the surface through capillary lift.

Since **Primer CC 200** is highly viscous, it should be applied in an even coat with a large brush, broom, roller or straight trowel after preparing the substrate as specified. It is recommended to apply coats of product one after the other. Also, because the product hardens very quickly, it is recommended to broadcast each coat with

**Quartz 0.5.** If the product is not broadcast as recommended, the surface would tend to harden with a glassy finish which would prevent the resin coating from adhering correctly.

Once **Primer CC 200** has hardened, and in all cases within 24 hours, apply the self-levelling or multi-layered resin system in a series of light or heavy coats or a synthetic screed mortar and a trowel-applied coating product.

Carrying out on-site tests should be considered to verify the application method.

### Cleaning of tools

Clean all the tools used to prepare and apply **Primer CC 200** immediately after use with ethanol. Once hardened, the product can only be removed mechanically.

### CONSUMPTION

0.6-0.8 kg/m<sup>2</sup> per coat depending on substrate absorption and roughness.

### PACKAGING

20 kg pre-dosed kits:  
– component A = 17.8 kg;  
– component B = 2.2 kg.

### STORAGE

12 months in its original packaging in a covered, dry area at a temperature of +5°C to +20°C.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Primer CC 200** component A irritates the skin and eyes. Components A and B may cause sensitisation to those predisposed if they come in contact with the skin.

**Primer CC 200** component B is corrosive and may cause burns. It is also hazardous if swallowed or if it comes in contact with the skin or enters the respiratory system. The product contains low molecular weight epoxy resins that may cause sensitisation if cross-contamination occurs with other epoxy compounds.

When applying the product it is recommended to wear protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin wash immediately with plenty of water and seek medical advice. Wear suitable protection for the respiratory system.

**Primer CC 200** components A and B are also hazardous for aquatic life. Do not dispose of these products in the environment.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

	component A	component B
<b>Colour:</b>	neutral	greyish neutral
<b>Appearance:</b>	viscous liquid	liquid
<b>Density (g/cm<sup>3</sup>):</b>	2.0	0.890

### APPLICATION DATA

<b>Mixing ratio:</b>	component A : component B = 100 : 12
<b>Mixing colour:</b>	greyish
<b>Consistency of mixing:</b>	dense fluid
<b>Density of mix (kg/m<sup>3</sup>):</b>	2,100
<b>Viscosity of mixing (mPa·s):</b>	950
<b>Application temperature:</b>	from +10°C to +30°C
<b>Surrounding conditions during application and hardening phases:</b>	+10°C to +30°C - max. R.H. of air: 80%

### FINAL PERFORMANCE (after 7 days)

<b>Workability time at +23°C:</b>	35 mins.
<b>Dust dry at +23°C and 50% R.H.:</b>	6 hours
<b>Touch dry at +23°C and 50% R.H.:</b>	12 hours
<b>Re-coat time at +23°C and 50% R.H.:</b>	18 hours
<b>Complete hardening time:</b>	7 days
<b>Compressive strength (EN 196) (N/mm<sup>2</sup>):</b>	72
<b>Flexural strength (EN 196) (N/mm<sup>2</sup>):</b>	33
<b>Adhesion to concrete (ISO 4264) (N/mm<sup>2</sup>):</b>	> 1.5

## **WARNING**

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

## **LEGAL NOTICE**

*The contents of this Technical Data*

**Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.**

**The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).**

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**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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