

Technical Data Sheet



EM 4716

adhesive primer

Product description

EM 4716 adhesive primer is a universal primer concentrate for mineral-based products.

Product properties

- Universal usability
- Very low emissions EC 1
- Single-component
- High adhesive bonding
- Alkali-resistant
- Even drying
- High yield

Uses

With EM 4716 you can prime almost any new or old substrate used in residential, commercial or industrial construction, e.g. cement screed, concrete, calcium sulphate screed, well-sanded poured asphalt, wooden floorboards, sanded epoxy resin coatings and raw tiles. The primer is a universal system component of cement-bound thin screed, filler and levelling compounds.

Substrate preparation

Experience has shown that optimum bonding between a coating system and substrate is achieved through careful preparation. When using levelling and filling compounds and cement-bound industrial floor coatings, mechanical preparation of the substrate is generally required (e.g. grinding/blasting/milling/vacuuming). Shot blasting or milling processes should be performed in accordance with the guidelines of the German Committee for Reinforced Concrete (DAfStb), October 2001, part 2, table 2.5. The process should be chosen based on what type of system will be used subsequently and the required surface tensile strength. Generally $> 1.0 \text{ N/mm}^2$ for residential construction and $> 1.5 \text{ N/mm}^2$ for industrial construction. The substrate must be dry, stable, able to bear a load and free of dust and impurities (dust and other residue can be removed with a vacuum cleaner, for example). Glazed tiles and wooden floorboards should generally be sanded with a fine grain. If moisture rising from the substrate has to be taken into account, a double coat of primer using EM 4710 EP primer/EM 4712 EC 1 and strewn quartz sand should be applied directly to the concrete substrate to act as a vapour barrier. The sand-treated epoxy resin layer should be primed with EM 4716 before laying the levelling layer.

Application

Work instructions:

Before applying, estimate the amount of material required. The type and quality of the substrate must be established before the proper mixing ratio can be determined.

Mixing time/mixing process:

EM 4716 is delivered as a concentrate. To produce the ready-to-apply mixture, the material must be thinned by stirring it with a drill and paddle after adding the specified amount of tap water by weight

Mixing tools:

Drill with mixing paddle, wooden stirrer

Application:

Apply the finished mixture of EM 4716 and tap water evenly by means of intensive brushing, preferably (and in the case of raw substrates exclusively) using a soft broom. When applying with a roller, ensure that the coating is even and full. Avoid puddle formation at all costs. If work is interrupted for a longer period, the finished primer mixture should be stirred again.

Coverage rates

Approx. $0.2 - 0.4 \text{ l/m}^2$ of finished mixture per coat. The amount used depends on the substrate quality. Highly absorbent substrates should always be treated with at least a second coat. This is the case if the applied material is fully absorbed by the substrate in a short time.

Subsequent treatment/Coating

To ensure optimal drying, ensure that the area is well ventilated (i.e. that it has a high rate of air exchange) while applying EM 4716.

Equipment cleaning

With water

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Special instructions

Important note: Material is sensitive to frost.

Environmental information:

GISCODE M-GF01; WGK 1; Industrial Safety Regulation (BetrSichV) not applicable

The packaging should be disposed of in accordance with the Packaging Ordinance. Uncontaminated packaging can be recycled.

Safety information: Protective goggles are recommended when decanting. Otherwise, wear work clothes and gloves. A safety data sheet can be requested for the product; also note the information on the containers.

Storage

EM 4716 can be stored in its original containers for up to 12 months after the production date. Opened containers should be closed tightly and the contents should be used quickly. Store in a dry environment with a temperature of + 10°C to + 30°C.

Logistics

- 1 l bottle
- 5 l canister
- 10 l canister
- 30 l canister

Legal notices

The information provided in this document is based on our technical knowledge and experience at the present time. Owing to the large number of potential influences, it does not relieve anyone using or processing our products from the responsibility of carrying out their own tests and experiments, and it is intended only to provide general guidelines. It does not imply any legally binding assurance of certain properties or that our products are fit for a specific purpose. Responsibility for complying with any property rights, applicable laws or other requirements lies solely with the user. This data sheet supersedes any previous data sheets.

Substrate	Mixture (4716 : water)	in system with
Cement screed/ concrete	1:3 Apply at least two coats in the case of highly absorbent sub- strates	Filling and levelling compounds
Wooden floorboards	1:1	Filling and levelling compounds
Tiled floors	1:1	Filling and levelling compounds
Poured asphalt	1:1	Filling and levelling compounds
Calcium sul- phate screed	1:1	Cement-bound fil- ling compounds up to 10 mm Calcium sulphate-bound filling and levelling compounds up to 30 mm

Outdoor application	yes
Indoor application	yes
Concentration	Approx. 1.0 l/dm ³
Colour	Milky white
Frost resistance	No
Relative air humidity	Max. 75% while drying
Application temperature (ambient)	5°C to 30°C
Application temperature (substrate)	Temperature of substra- te and material 10°C to 25°C
Waiting period between coats	Minimum: The primer must dry until the milky cloudiness gives way to colourlessness. Higher temperatures and low humidity reduce the time, while lower temperatures and high humidity increase it. Maximum: 48 hours