

Technical Information Sheet Article No. 0936

Epoxy MT 100

(Viscacid Epoxy Primer MT New)

Special primer for matt damp substrates based on a transparent epoxy resin

Range of use

Remmers Epoxy MT 100 is an unpigmented epoxy resin binder that is used as an impregnation agent, primer, bonding layer, leveling layer and for the production of compression resistant mortars, flow mortars as well as a blinded layer for blinded covers.

Application examples:

- Vapour barrier on young concrete and cement screeds
- Consumer markets
- Workshops
- Fabrication halls
- Assembly areas
- Food industry
- Meat markets
- Bakeries

Property profile

Transparent, 2-component, liquid epoxy resin on a bisphenol A/F base:

- Fast curing
- Substrate tolerant
- For matt damp substrates
- Low viscosity
- Good penetration capacity
- Plasticizer-free
- Nonylphenol and phenol-free
- Can be subjected to mechanical loads

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density (25 °C):	1.07 g/cm ³	0.97 g/cm ³	1.08 g/cm ³
Viscosity (25 °C):	900 mPas	200 mPas	650 mPas

1 : 10 mortar*
Compressive strength: 62 N/mm²
Flexural tensile strength: 21 N/mm²

* Epoxy resin mortar with standard sand

- Can be subjected to chemical loads

Substrates

The substrate must be load-bearing, dimensionally stable, sound and free of loose material, dust, oil, grease, rubber marks or other substances that could interfere with adhesion. Tensile strength of the substrate must be 1.5 N/MM² on average and compressive strength at least 25 N/mm².

The substrate may be matt damp but should not show a film of liquid.

- Concrete max. 6% by mass
- Cement screed max. 6% by mass

Ceramic covers should be examined for their ability to be coated. Set up trial areas if necessary.

The substrate must be capable of being blasted or grinded and should not be subjected to larger temperature fluctuations (vapour pressure). Matt damp substrates must be primed twice in general.

Substrate preparation

The substrate should be prepared by suitable measures, e.g. steel ball jetting or grinded with a diamond disc so that the specified requirements are fulfilled. Fill broken out and missing areas in the substrate flush with the surface with Remmers EP Mortars.

Production

The hardener (comp. B) is completely added to the basic compound (comp. A) and mixed. The mix is then poured into a separate container and mixed again thoroughly.

In the case of filled systems, the corresponding quantity of filler is slowly added to the epoxy resin mixture while mixing, mixing thoroughly.

Directly after mixing, the ready to use mixture is poured onto the prepared surface and distributed by suitable means.

Mixing ratio

71 : 29 parts by weight

Pot-life

At 20 °C and 60 % relative humidity approx. 20 minutes. Higher temperatures reduce, lower temperatures increase pot-life.

Notes on working

Application method

Depending on application, apply with a rubber blade, toothed rubber blade, toothed squeegee, epoxy roller or smoothing trowel.

Waiting time

Waiting time between working operations should be at least 6 hours and max. 2 days at 20 °C. If waiting times are longer than 48 hours, the surface of the last working operation must be broadcast with fire-dried quartz sand. The specified time is reduced at higher temperatures and increased at lower temperatures.

Working temperature

The temperature of the material, air and substrate must be at least 3 °C and max. 30 °C. Relative humidity should not exceed 80 %. The temperature of the substrate must be at least 3 °C above the dew point temperature.

Drying time

At 20 °C and 60 % relative humidity: foot traffic after 8 hours, mechanical loads after 2 days, full loading capacity after 7 days. At lower temperatures correspondingly longer.

During the curing process (approx. 24 hours at 20 °C) the applied material should be protected from

moisture. Otherwise there may be disturbances on the surface or adhesion may be impaired.

Application examples

Impregnation/strengthening:

The resin mixture is diluted with up to 20 % by mass Remmers V 101 Thinner and applied to the surface until saturation has been achieved, distributing by suitable means, e.g. a rubber blade, and then worked into the substrate with an epoxy roller. The application rate depends on the substrate and application and ranges at approx. 0.30-0.50 kg/m² epoxy resin.

Priming:

The resin mixture is generously applied to the surface and distributed by suitable means, e.g. a rubber blade, so that the pores in the surface of the substrate are completely filled. Then work over with an epoxy roller. Application rate depends on substrate and application and is approx. 0.30-0.50 kg/m²

Levelling layer/scratch coat:

The filled material (up to 1 : 1 parts by weight) is applied to the primed surface and distributed with a suitable trowel. If necessary, work over with a spiked roller. Application rate per mm thick layer: approx. 0.85 kg/m² epoxy resin and 0.85 kg/m² Remmers Selectmix 05.

Flow cover/blinded layer:

The filled material (up to 1 : 1.5 parts by weight) is applied to the primed surface and distributed with a toothed trowel or toothed rubber blade and worked over with a spiked roller. Application rate for a 1.5 mm thick layer: approx. 1.00 kg/m² Epoxy Resin and 1.50 kg/m² Remmers Selectmix SBL.

Liquid tight mortar:

The filled material (up to 1 : 5 parts by weight) is distributed with a smoothing trowel and smoothed. Application rate per mm thick layer: approx. 0.4 kg/m² Epoxy Resin and 2.0 kg/m² Remmers Selectmix 05.

Epoxy resin mortar:

The filled material (up to 1 : 8 parts by weight) is distributed with a smoothing trowel and smoothed. Application rate per mm thick layer: approx. 0.25 kg/m² Epoxy Resin and 2.0 kg/m² Remmers Selectmix 08.

Tools, cleaning

Smoothing trowel, toothed trowel, rubber blade, epoxy roller, spiked roller, mixing equipment, positive mixer. Clean tools and any soiling immediately while fresh with V 101 Thinner.

Notes

All of the values and application rates given were determined under laboratory conditions (20 °C) with standard colours. When worked at the building site, these values may deviate slightly.

Mechanical abrasion leads to wear marks. Epoxy MT 100 is not suitable for vehicles with metal or polyamide tyres!

Because of the different absorption capacity of mineral substrates, impregnated surfaces will look spotty.

Epoxy resins are generally not colour stable when exposed to UV light or the influence of weather.

Further notes on working, system construction and maintenance of the products listed are found in the latest Technical Information Sheets and Remmers System Recommendations.

Packaging, application rate, shelf-life

Packaging:

Tin containers
1 kg, 2.5 kg 10 kg and 25 kg

Application rate:

Depending on application between 0.25 - 0.85 kg/m²

Shelf-life:

At least 9 months in closed and unmixed, original containers stored cool but frost-free.

Safety, ecology, disposal


Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

GISCODE: RE 01

Chem VOC Paint V (2004/42/EC):

Group (LB): j
Stage 2 (2010): max. 500 g/l
Stage 1 (2007): max. 550 g/l

This product contains < 500 g/l

	
Remmers Baustofftechnik GmbH Bernhard-Remmers-Straße 13 D-49624 Lönigen	
07	
EN 13813 SR-B1,5-AR1-IR4	
Epoxy MT 100	
Synthetic resin screed for use in buildings (Construction according to Technical Information Sheets)	
Behaviour under fire	B _{fl} ³⁾
Release of corrosive substances	SR
Water permeability	NPD ²⁾
Wear resistance	≤ AR 1 ¹⁾
Adhesive pull strength	≥ B 1,5
Impact resistance	≥ IR 4
Sound insulation	NPD
Sound absorption	NPD
Thermal insulation	NPD
Chemical resistance	NPD

- 1) Determined according to the BCA method on smooth covers.
- 2) NPD: Characteristic value not stipulated
- 3) In Germany, DIN 4102 is presently still valid; fire class B1 is fulfilled and is comparable with DIN EN 13501-1 Class B_{fl}.

Vorstehende Angaben wurden aus unserem Herstellerbereich nach dem neuesten Stand der Entwicklung und Anwendungstechnik zusammengestellt.

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