Remmers Baustofftechnik 49624 Löningen Tel.: +49 (0)5432/83-0 Fax: +49 (0)5432/3895 www.remmers.de

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

Characteristics of the product
• 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

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.

Substrate preparation
The substrate should be prepared by suitable measures, e.g. steel ball jetting or ground 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.
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 distributed 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 Löningen

EN 13813 SR-B1,5-AR1-IR4
Epoxy MT 100

Synthetic resin screed for use in buildings
(Construction according to Technical Information Sheets)

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behaviour under fire</td>
<td>B&lt;sub&gt;f1&lt;/sub&gt;</td>
</tr>
<tr>
<td>Release of corrosive substances</td>
<td>SR</td>
</tr>
<tr>
<td>Water permeability</td>
<td>NPD</td>
</tr>
<tr>
<td>Wear resistance</td>
<td>≤ AR 1&lt;sup&gt;1)&lt;/sup&gt;</td>
</tr>
<tr>
<td>Adhesive pull strength</td>
<td>≥ B 1.5</td>
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<tr>
<td>Impact resistance</td>
<td>≥ IR 4</td>
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<tr>
<td>Sound insulation</td>
<td>NPD</td>
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<tr>
<td>Sound absorption</td>
<td>NPD</td>
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<tr>
<td>Thermal insulation</td>
<td>NPD</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>NPD</td>
</tr>
</tbody>
</table>

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 B0.