Technical Data Sheet
Article No. 6250 - 6259

Epoxyflex Coating PH

Resistant, static crack-bridging coating for surfaces with traffic and mechanical loads

Range of use

Remmers Epoxyflex Coating PH is used for concrete surfaces that are subjected to mechanical loads, e.g. car parks and industrial floors.

Application examples:

- Factories
- Warehouses
- Work shops
- Commercial floors
- Multi storey car parks

Property profile

Remmers Epoxyflex Coating PH is a 2-component, pigmented, self levelling coating with static crack-bridging properties on an epoxy resin base.

- Can be applied by roller / squeegee
- Wear resistant
- Can be subjected to mechanical loads
- Physiologically safe

Colours

Pebble grey	Art. No. 6251
Silver grey	Art. No. 6252
Colour collection	Art. No. 6250
Special colours	Art. No. 6259

Characteristic data of the product

A Shore hardness:		**D shore hardness:**	
Unfilled after 24 hours	88	Unfilled after 24 hours	46
Filled after 24 hours	90	Filled after 24 hours	50
Unfilled after 7 days	90	Unfilled after 7 days	67
Filled after 7 days	93	Filled after 7 days	74

	unfilled	**filled**
Tensile bending strength:	cannot be determined	31.1 N/mm²
Compressive strength:	cannot be determined	38.8 N/mm²

Mixing time: At least 2 minutes until there are no streaks

	Comp. A	**Comp. B**	**Mixture**
Density:	1.58 g/cm³	1.03 g/cm³	1.43 g/cm³
Viscosity:	5500 mPa·s	70 mPa·s	880 mPa·s

Substrate

The substrate must be load-bearing, sound and free of loose material, dust, oils, grease, rubber dust and any other substances that could interfere with adhesion. The tensile strength of the surface of the substrate must be 1.5 N/mm² on average and compressive strength at least 25 N/mm².

Ensure that the substrate has an effective and functional damp course membrane and that the measured moisture content of the substrate is <4% (using a Tramex CME). If >4% then seek advice from Remmers Technical Department.

Preparation of the substrate

The substrate must be prepared by suitable means, e.g. steel ball jetting or with a diamond grinder so that it meets the specifications given above.

Depending on the substrate, it is primed and levelled with a suitable primer and scratch coat, e.g. Remmers Epoxy ST 100. If waiting times between working operations are longer, broadcast the surface with Quartz 03/06.

Repair broken out and missing areas in the substrate flush with the surface using a suitable Epoxy Mortar e.g. Epoxy Quickfix.

Mixing

Add the hardener to the resin component and mix thoroughly with a slow speed mixer (max. 400 rpm.). Pour into a separate container and mix again thoroughly. Then pour the mixed material onto the surface and distribute with suitable tools.

Note: Insufficient mixing may lead to the formation of blistering and/or cause soft, uncured spots within the laid resin.

Note: In order to increase the speed of initial cure, Accelerator PH may be added and mixed in to the Epoxyflex Coating PH. Add at 2-4% by weight of Epoxyflex Coating PH.

Mixing ratio

Mixing ratio binder:
4.6 : 1 parts by weight
3.1 : 1 parts by volume

Mixing ratio binder to filler (quartz sand 0.1 - 0.3 mm):
1 : 1.2 parts by weight
1 : 1.1 parts by volume

Pot-life

At 20 °C and 60 % relative humidity approx. 30 minutes. Higher temperatures reduce, lower temperatures increase pot-life.

Notes on working

The temperature of the coating material, air and substrate must be at least 10 °C, max. 30 °C. Relative humidity should not exceed 85 %.

Drying time

At 20 °C lightly loadable (foot traffic) after approx. 12 hours; at 10 °C after approx. 24 hours. Full mechanical and chemical loading capacity is achieved after 7 days at 20 °C. Lower temperatures delay curing.

Examples of applications

Flow coating:
Remmers Epoxyflex Coating PH can be worked unfilled or filled with Quartz Sand 01/03 (grain 0.1 - 0.3 mm) in a mixing ratio of 1 : 0.5 parts by weight to 1 : 1.2 parts by weight, depending on temperature and the thickness of the layer to be applied. The material is applied with a notched trowel, smoothing trowel or floor squeegee.

After the coating has been evenly applied, entrapped air is removed with a spike roller. To achieve a slip resistant coating, broadcast the surface with Quartz sand (03/06). Application rate: at least 3 kg/m².

Seal coat:
Apply the seal coat uniformly with a suitable roller, working lengthwise and crosswise.

Notes

All of the values and application rates given above were determined under laboratory conditions (20 °C) with standard shades of colour. These values may deviate slightly when worked at the building site.

Special colours, thin layers, other graded sands as well as lower temperatures may reduce the filling capacity of the coating and, in some cases, impair the appearance of the coating.

Mechanical loads with a grinding effect cause wear marks on the surface of the coating. The coating is not suitable for vehicles with metal or polyamide tyres.

Epoxy resins are generally not colour stable when subjected to UV light and weather.

Use material with the same batch number for continuous surfaces; otherwise there may be slight differences in the shade of colour. Regular cleaning and application of a care product increase service life and enhance the appearance of the coating.

Further notes on working and maintenance are found in the latest Technical Data Sheets as well as Remmers notes on laying.

Tools, cleaning

Rubber wiper, notched trowel, smoothing trowel, epoxy roller, mixing tools on a counter-current principle.
Clean tools and any splashed material while fresh with V 101 Thinner. Once the material has reacted, it can only be removed by mechanical means.

Packaging, application rate, shelf-life

Packaging:
2.5 kg, 12 kg and 25 kg tin cans

Application rate:
(For a 2.5 mm thick layer):
Depending on application, at least 0.60kg/m^2 as a coating and 3kg/m^2 as a floor coating.

Shelf-life:
At least 9 months in unopened and unmixed original containers stored 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: 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

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid.
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