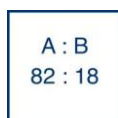


Technical Data Sheet
Art. No. 6250 - 6259

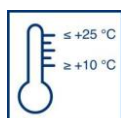
Epoxy Flex PH

(old name: Epoxyflex Coating PH)

Resistant coating with residual flexibility for surfaces with vehicle traffic and mechanical loads



Mixing ratio
2 components



Working temperature



Mixing time



Flow coating,
apply standing



Pot-life



Store frost-free



Shelf-life

Range of use

Remmers Epoxy Flex PH is used for concrete surfaces that are subjected to mechanical loads, e.g. roadways and industrial floors.

Application examples:

- Production surfaces
- Storage surfaces
- Work shops
- Fabrication halls

Property profile

Remmers Epoxy Flex PH is a 2-component, pigmented, self-levelling coating with residual flexibility on an epoxy resin base.

- Can be applied standing
- Wear resistant
- Can be subjected to mechanical loads
- Physiologically safe

Colours

Approx. RAL 7032 pebble grey,
Art. No. 6251
Approx. RAL 7001 silver grey,
Art. No. 6252
Special colours, Art. No. 6259

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Appearance:	coloured	light yellow	coloured
Density:	1.6 g/cm ³	1.0 g/cm ³	1.5 g/cm ³
Viscosity (25 °C):	2900 mPa·s	100 mPa·s	800 mPa·s
D Shore:	70 (after 7 days)		
Abrasion:	0.078 g (Taber, roll CS 10, 1000 rev, 1000 g)		

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.

Substrate preparation

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 should be 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 Sand 02/07.

Fill broken out and missing areas in the substrate flush with the surface using the Remmers PCC System or one of the Remmers EP mortars.

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.

Mixing ratio

Mixing ratio binder:

According to parts by weight:
82 : 18

Mixing ratio binder to filler (Quartz Sand 01/03, Art. No. 4405):

According to parts by weight up to 1 : 1 (depending on temperature and thickness of the layer)

Pot-life

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

Notes on working

When working, wear suitable protective equipment (see Personal protective equipment).

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 light loads (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 Epoxy Flex PH can be worked unfilled or filled with Quartz Sand 01/03 (grain 0.09 - 0.25 mm) in a mixing ratio of 1 : 0.5 parts by weight to 1 : 1.0 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 (0.2 - 0.7 mm).

Application rate: at least 3 kg/m².

Coating:

The ready-to-use, mixed material can be applied to the primed and levelled surface standing with a toothed squeegee. Immediately afterward, the still fresh coating is worked through lengthwise and crosswise several times with a suitable tool.

If the coating is to be blinded, the appropriate blinding material is broadcast uniformly and generously while the material is fresh.

Application rate: approx. 1.5 kg/m² per mm, at least 0.80 kg/m²

Topcoat:

Apply the topcoat uniformly, using 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 colours. These values may deviate slightly when worked at the building site.

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

Grinding mechanical loads will leave 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.

When reordering sample shades of colour or deliveries of several batches are made to the same object, always state the order or batch number of the first delivery. Without this information, the same colour as the first delivery cannot be guaranteed.

When the surface is repaired or work is carried out up to existing surfaces, there will be a visible transition due to differences in appearance and texture.

Regular cleaning and the use 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.

Personal protective equipment

Suitable nitrile rubber gloves (e.g. Tricotril made by KCL), protective glasses, splash protection, long-sleeved shirt or arm protectors.

When the material is sprayed, further protective measures (respiratory filter) are necessary. See Safety Data Sheet.

Packaging, application rate, storage

Packaging:

12 kg and 25 kg tin cans

Shelf-life:

At least 12 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 and the brochure "Epoxy Resins in the Building Industry and the Environment" published by Deutsche Bauchemie e.V. (2nd edition as per 2009).

GISCODE: RE 01


VOC content :

EU limit value for this product (Cat. A/j) : max. 500 g/l (2010)
 This product contains < 500 g/l VOC

Emergency information:

Mon.-Thurs. from 7:30 a.m. to 4:00 p.m.; Friday from 7:30 a.m. to 2:00 p.m.
 Product Safety Department:
 Tel.: +49 (0)5432 83-138
 After office hours:

Giftinformationszentrum-Nord
 [Poison Information Centre North]
 24 h hotline +49 (0)551 – 19240

	
Remmers Baustofftechnik GmbH Bernhard-Remmers-Str. 13 D – 49624 Lönigen 11 GBIII 023_3	
EN 13813:2002 6250 Synthetic resin screed/synthetic resin coating for use internally in buildings	
Reaction to fire	E _{fl}
Release of corrosive substances	SR
Wear resistance	≤AR1
Bond strength	≥B1.5
Impact resistance	≥ IR 4



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. With the publication of this Technical Information Sheet all previous editions are no longer valid.

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