

Technical Data Sheet
Art. No. 6960 - 6966

Epoxy PH Color

Pigmented epoxy resin coating with a wide application spectrum



Range of use

Remmers Epoxy PH Color is used as a filled flow coating for medium to heavy loads in trade and industry.

Application examples:

- Production facilities
- Warehouses
- Workshops
- Factory halls

Property profile

Epoxy PH Color is a pigmented, 2-component epoxy resin coating that can be subjected to mechanical loads:

- Can be worked standing
- Wear resistant
- Can be subjected to mechanical loads
- Can be subjected to chemical loads

Colours

Pebble grey, approx. RAL 7032
Art. No. 6961

Silver grey, approx. RAL 7001
Art. No. 6962

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density:	1.7 g/cm ³	1.0 g/cm ³	1.5 g/cm ³
Viscosity:	2800 mPas	100 mPas	1000 mPas
Abrasion resistance:	0.07 g (Taber roll CS 17/1000 rev./1000 g)		
D-Shore hardness:	69 (after 7 days, 20 °C)		

Light grey, approx. RAL 7035
Art. No. 6963

Basalt grey, approx. RAL 7012
Art. No. 6964

Stone grey, approx. RAL 7030
Art. No. 6965

Window grey, approx. RAL 7040
Art. No. 6966

Special colours Art. No. 6960

Substrate

The substrate, as a rule an industrial screed, must be load-bearing, sound, free of loose material, dust, oil, grease, marks from rubber tyres and other substances that could interfere with adhesion.

The tensile strength of the surface must be 1.5 N/mm² on average and compressive strength at least 25 N/mm².

The substrate should have reached compensation moisture balance and be protected from the effects of moisture from behind, also during utilisation.

- Concrete max. 4% by mass
- Cement screed max. 4% by mass

In the case of anhydrite and magnesite screed it is absolutely essential that the penetration of moisture from building elements or the ground is not possible.

The substrate must be prepared by suitable measures such as steel shot blasting or diamond grinding so that it meets specifications.

Fill broken out or missing areas flush with the surface using the Remmers PCC System or with Remmers EP mortars.

Directions for mixing

Add the entire quantity of the hardener (component B) to the resin component (component A) and mix the material. Pour into a separate container and mix again.

For filled systems, the corresponding quantity of filler is slowly added to the epoxy resin mixture while stirring slowly. Mix thoroughly.

The ready to use mixture is poured over the prepared surface directly after mixing and distributed with suitable tools.

Mixing ratio

82 : 18 parts by weight

Pot-life

At 20 °C and 60 % relative humidity approx. 25 minutes. Higher temperatures reduce, lower temperatures increase pot-life.

Notes on working

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

The temperature of the material, air and substrate must be at least 10 °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

The surface can be lightly loaded (foot traffic) after approx. 24 hours at 20 °C; after approx. 2 days at < 12 °C. Full mechanical and chemical loading capacity is achieved after 7 days at 20 °C. Lower temperatures delay drying time and development of full loading capacity.

Application examples

Coating:

The ready to use mixture can be applied to the primed and levelled surface while standing using a toothed rubber blade. Immediately afterward, the still fresh layer is worked lengthwise and crosswise several times using suitable tools.

Application rate:

Approx. 1.5 kg/m² per mm, at least 0.80 kg/m²

Flow cover:

Depending on conditions at the construction site, the ready to use mixture filled up to 1 : 1 parts by weight is distributed with a smoothing trowel/toothed trowel or a toothed rubber blade and then worked over with a spiked roller.

Application rate:

At least 1.5 kg/m² Epoxy PH Color and the corresponding quantity of Remmers Quartz 01/03.

Base layer for blinded covers:

The ready to use mixture can be applied to the primed and levelled substrate while standing, using a toothed rubber wiper. Immediately afterward the still fresh coating is worked over lengthwise and crosswise several times using suitable tools. The blinding material is then generously and uniformly broadcast over the still fresh base layer.

Application rate depends on the size of the grain:

At least 0.80 kg/m²

Sealant for blinded covers:

After excess blinding material has been removed, Epoxy PH Color is distributed over the cured and blinded layer with a rubber blade and smoothed with an epoxy roller.

Application rate depends on the size of the grain:

At least 0.60 kg/m²

Notes

All of the values and application rates given apply to laboratory conditions (20 °C) using standard shades of colour. When used at building sites and in the case of special colours, these values may deviate slightly.

Resistance to water may be reduced when the coating is applied at low temperatures. Therefore, surfaces that will be subjected to water loads should only be coated when the temperature of the air and object are > 12 °C.

Shades of colour with little hiding power, e.g. yellow, red or orange, have a translucent effect. In some cases, the addition of up to 2 % Remmers Add TX can improve the hiding power of the coating. The substrate can also be hidden by using a suitable primer, e.g. light grey.

Abrasive mechanical loads cause wear marks and abrasion. This should be taken into consideration concerning the desired service life.

When coating continuous surfaces, always use material with the same batch number; otherwise there may be slight deviations in the colour, degree of gloss and texture.

When reordering standard shades of colour or when delivering several batches of customer-specific colours to the same object, please always state the order number or batch number of the first delivery. Without this information, we cannot guarantee that subsequent deliveries have the same shade of colour as the first.

When repairing surfaces or working up to existing surfaces, there will be a visible transition in appearance and texture.

Epoxy resins are generally not stable when exposed to UV-light and weather. Colour stability can be improved by using a UV-absorbing polyurethane sealant.

To achieve even surfaces, the size of the aggregates should be taken into account.

The coating is suitable for vehicle traffic with rubber tyres but not for vehicles with metal or polyamide tyres or dynamic point loads.

Further notes on working, system construction and maintenance are found in the latest Technical Information Sheet and Remmers system recommendations.

Tools, cleaning

Smoothing trowel, rubber blade, epoxy roller, spiked roller, mixing equipment. Clean tools and any splashed material immediately while fresh with V 101 Thinner.

Personal protective equipment

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

Packaging, application rate, shelf-life

Packaging:

1 kg, 10 kg (depending on colour) and 25 kg tin containers

Application rate:

Depending on application at least 0.60 – 1.5 kg/m² Epoxy PH Color

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

GISCODE: RE 1

VOC-Content:

EU limit value for the 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 07 GBIII 033_2	
EN 13813:2002 Synthetic resin for internal uses EN 13813: SR – B1,5 – AR1 – IR4	
Reaction to fire	B _{fl} -s1
Release of corrosive substances	SR
Wear resistance	≤ AR 1
Bond strength	≥ B 1,5
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.

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Remmers (UK) Limited Crawley
 United Kingdom
 Tel: +44(0) 845 373 0103
 Fax: +44(0)845 373 0104
www.remmers.co.uk