

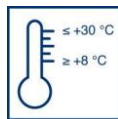
Technical Data Sheet
Article No. 0905, 6360

Epoxy BH 100

(Viscacid Epoxy Construction Resin New)
Transparent epoxy resin for universal use



Mixing ratio
2 components



Working temperature



Mixing time



Brush, roller,
apply standing



Pot-life



Store frost-free



Shelf-life

Range of use

Epoxy BH 100 is an unpigmented epoxy resin binder that is used for impregnating, priming, bonding layers, levelling layers and for the production of compression resistant mortars and self-flowing floor coatings as well as blinded finish floor coverings.

Examples of applications:

- Consumer markets
- Workshops
- Fabrication facilities
- Stairs with heavy pedestrian traffic
- Assembly halls
- Shipyards
- Warehouses for heavy goods
- Hangars for heavy vehicles such as lorries and airplanes

Property profile

Epoxy BH 100 is a transparent, 2-component, liquid epoxy resin on a bisphenol A/F base:

- Low viscosity
- Good penetration capacity
- Plasticizer-free
- Nonylphenol and alkyl phenol-free

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density (25 °C):	1.16 g/cm ³	1.00 g/cm ³	1.10 g/cm ³
Viscosity (25 °C):	950 mPa·s	50 mPa·s	450 mPa·s
Compressive strength:	1 : 10 mortar*		
Flexural tensile strength:	67 N/mm ² 23 N/mm ²		

* Epoxy resin mortar with standard sand

- Can be subjected to heavy mechanical loads
- Can be subjected to chemical loads

Substrates

The substrate must be load-bearing, stable, sound and free of loose material, dust, oils, grease, rubber marks and 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.

Substrates must have reached their compensation moisture balance and be protected from the effect of mois-

ture from behind, also during utilisation.

- Concrete max. 4 % by mass
- Cement screed max. 4 % by mass
- Anhydrite screed max. 0.3 % by mass
- Magnesite screed 2-4 % by mass

In the case of anhydrite and magnesite screed, it is extremely important that moisture cannot penetrate from construction elements or the ground.

Preparation of the substrate

Prepare the substrate by suitable means, e.g. steel ball jetting or with a diamond grinder, so that it meets the specified requirements.

Broken out or missing areas should be filled flush with the surface using the Remmers PCC System or with Remmers EP mortars.

Preparation of the epoxy binder

Tin can:

Add the entire quantity of the hardener (component B) to the resin compound (component A). Mix with a slow speed, electric mixer (approx. 300-400 rpm), then pour into a separate container and mix again thoroughly.

Multi-chamber bag:

Open the outer packaging along the perforation and remove the transparent, multi-chamber bag. Then remove the dividing strip between the 2 components. Mix the two components together by kneading the contents in the bag intensively (approx. 60 seconds).

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

Directly after preparation, the mixture is poured onto the prepared surface and distributed by suitable means.

Mixing ratio

71 : 29 parts by weight

Pot-life

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

Note on working

Wear suitable protective clothing/equipment when working (see also Personal protective equipment).

Application method

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

Waiting time

Waiting time between working operations at 20 °C should be at least 12 hours and max. 2 days. If waiting time is longer than 48 hours, the surface of the last working operation must be broadcast with fire-dried

quartz sand. The times given are reduced at higher temperatures and increased at lower temperatures.

Working temperature

Ambient temperature as well as the temperature of the material and substrate must be at least 8 °C, 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 1 day, mechanical loads after 3 days, full loading capacity after 7 days. At lower temperatures correspondingly longer.

During the curing process (approx. 24 hours at 20 °C), protect the material from moisture; otherwise the surface may be disturbed or problems with adhesion may arise.

Examples of applications

Impregnation/strengthening:

The resin mixture is thinned with up to 20 % by mass Remmers V 101 Thinner and applied to the surface by suitable means such as a rubber wiper to saturation and then worked into the substrate with an epoxy roller.

Application rate, depending on substrate and application, 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 wiper, so that the pores on the surface of the substrate are completely closed. Then work over with an epoxy roller.

Application rate approx. 0.30-0.50 kg/m², depending on the substrate.

Levelling layer /scratch coat:

Apply the material which has been filled 1 : 1 parts by weight to the primed surface and distribute with a suitable trowel. If necessary, work over afterward with a spiked roller. Application rate per mm thick layer: approx. 0.85 kg/m² epoxy resin and 0.85 kg/m² Remmers Quarz 01/03.

Open-pored epoxy screed:

Distribute and smooth the material which has been filled 1 : 10 parts by weight with a smoothing trowel.

Application rate per mm thick layer: Approx. 0.2 kg/m² epoxy resin and 2.0 kg/m² Remmers Selectmix 25.

Tools, cleaning

Smoothing trowel, toothed trowel, rubber wiper, epoxy roller, spiked roller, mixing equipment, positive mixer if required. Further information is found in our tool programme brochure.

Clean tools and any splashed material immediately while fresh with V 101 Thinner.

Personal protective equipment

Suitable nitrile rubber gloves, protective goggles, splash protection. Further information is found in our tool programme brochure.

Notes

All of the values and application rates given above were determined under laboratory conditions (20 °C). When worked at the building site, there may be slight deviations in these values.

Abrasive mechanical loads cause wear marks. Not suitable for vehicles with metal or polyamide tyres!

Impregnated surfaces may have a spotty appearance due to differing absorption capacity of mineral substrates.

When exposed to UV light and weather, epoxy resins are generally not colour stable.

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

Packaging, application rate, shelf-life

Packaging:

Art. No. 6360, multi-chamber bags: 1 kg, 2,5 kg

Art. No. 0905, tin cans: 10 kg, 25 kg

Application rate:

Depending on application between 0.2 and 0.85 kg/m²

Shelf-life:

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

GISCODE: RE 01

VOC content:

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

Information in an emergency:

Mon.-Thurs. from 7:30 a.m. to 4:00 p.m.; Fri. from 7:30 a.m. to 2:00 p.m.

Product Safety Department:


Tel.: +49 (0)5432/83-138

After office hours:

Tel.: +49 (0)5961/919547

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Remmers GmbH Bernhard-Remmers-Straße 13 D-49624 Lönninge 10 GBIII 014_4	
EN 13813:2002 0905 Synthetic resin screed for use internally in buildings	
Reaction to fire	E _{fl}
Release of corrosive substances	SR
Wear resistance	≤ AR1
Bond strength	≥ B1.5
Impact resistance	≥ IR4

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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