

Technical Information Sheet
Article No. 6380-6389, 6399

Epoxy BS 3000 SG

(Viscacid BS 3000 silk gloss)

High quality, silk gloss, coloured water based epoxy resin binder and coating

Range of use

Remmers Epoxy BS 3000 SG is used as a coating in floor and wall areas or as a binder in filled surface protection systems for surfaces that are subjected to mechanical and chemical loads (tested according to test criteria in accordance with OS 8, edition 1990).

Application examples:

- Production areas, factories
- Warehouses
- Garages
- Parking garages
- Balconies
- Surfaces with ground contact
- Workshops

Property profile

Epoxy BS 3000 SG is a pigmented, 2-component, water based epoxy resin binder that can be used for many applications.

- Silk gloss
- Low odour
- Breathable (diffusion open)
- High filling capacity
- Excellent abrasion resistance
- Good chemical resistance
- Can be made slip-resistant
- Physiologically safe
- Suitable for indoor areas

Characteristic data of the product

	Comp. A	Comp. B	Mixture
Density (25 °C):	1.5 g/cm ³	1.1 g/cm ³	1.4 g/cm ³
Viscosity (25 °C):	400 mPas	200 mPas	750 mPas
Colour:	pigmented	transparent	pigmented
Abrasion resistance:	0.07 g (Taber roll CS 17/1000 rev./1000 g)		
Solid content:	65 % by mass		

Shades of colour

Pebble grey	Art. No. 6381
Silver grey	Art. No. 6382
Light grey	Art. No. 6383
Basalt grey	Art. No. 6389

Special colours:	
20-100 kg	Art. No. 6380
> 100 kg	Art. No. 6399

Substrate

The substrate must be load-bearing, dimensionally stable, sound, free of loose material, dust, oil, grease, rubber marks or other substances with a separating effect. Tensile strength of the substrate must be 1.5 N/mm² on average and compressive strength at least 25 N/mm².

The substrate must also be sufficiently strong and load bearing and have a moisture content not exceeding the following as measured by Tramex CME or CM methods.

- Concrete max. 6 % by mass
- Cement screed max. 6 % by mass

In the case of anhydrite and magnesite screeds, the penetration of moisture from building elements or the ground must be absolutely excluded.

Ceramic tiles, old coatings, levelling compounds and interior poured asphalt (AS IC 10) must be examined for coating suitability. If necessary, set up trial areas.

Substrate preparation

The substrate must be prepared by suitable means so that it meets the requirements given above, e.g. by captive shot blasting or diamond grinding. Broken out and missing areas must be filled flush with the surface in the Remmers PCC System or with one of the Remmers EP Mortars.

Production

The hardener (component B) is completely added to the epoxy resin (component A) and mixed. It is then poured into a separate container and thoroughly mixed again.

In the case of filled systems, fillers are then added, mixing thoroughly again and, if necessary, adding up to 10 % water in relation to the binder (10% by weight of binder). The filled mix is then poured into a separate container and mixed again thoroughly.

The ready-made mix is then directly poured onto the prepared surface and distributed by suitable means.

Mixing ratio

80 : 20 parts by weight

Pot-life

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

Notes on working

Priming:

Remmers Epoxy BS 2000 should be used as the normal primer or adhesion promoter on surfaces that are subjected to mechanical loads. The application rate depends on the state of the substrate and is approx. 0.15 - 0.20 kg/m² per working operation. Other primers can be selected according to the substrate.

Levelling layer:

When used as a levelling or blinded layer, Remmers Selectmix SBL, a filler with optimised flow properties, can be added in a mixing ratio of 1:1.5 parts by weight to Remmers Epoxy BS 3000 SG.

To adjust viscosity, 10 % water (in relation to the binder, Epoxy BS 3000 SG) can be added to the thoroughly mixed binder-filler, after which it is again mixed thoroughly. The reactive mixture is distributed over the surface with a steel trowel or toothed rubber squeegee in a

layer max. 2 mm thick and worked over with a spiked roller. After drying but within 48 hours, the surface is sealed with Epoxy BS 3000 SG/Matt.

The application rate depends on the state of the substrate and is at least 1.8 kg/m² of the mix plus 10 % water (by weight of binder)

Sealing:

As a rule, Epoxy BS 3000 SG is distributed over the prepared surface with a rubber squeegee and then rolled with an epoxy roller. The application rate depends on the state of the substrate and is approx. 0.20 - 0.25 kg/m² per coat.

Waiting time:

At 20 °C, waiting times between working operations should be at least 16 hours and max. 48 hours. The times given are reduced at higher temperatures and increased at lower temperatures or by thicker layers.

During the drying phase, ensure good ventilation so that the water that evaporates is led off. Uneven application as well as poor ventilation may cause different degrees of gloss on the surface.

Working temperature

The temperature of the material, air and substrate must be at least 8 ° and max. 30 °C. Relative humidity should not exceed 80 %. The substrate must also be at least 3 °C above the dew point temperature.

Drying time

At 20 °C and 60 % relative humidity: foot traffic after 1 day, mechanically loadable after 3 days, full loading capacity after 7 days. At lower temperatures correspondingly longer.

Special notes

All of the values and application rates given above were determined under laboratory conditions (20 °C). When worked at the building site, values may deviate slightly.

In the case of levelling layers, the maximum degree of filling may vary, depending on the shade of colour. Special colours should be checked for filling capacity.

Shades of colours without much hiding power such as yellow, red and orange can have a transparent effect or low opacity. In some cases, the addition of up to 2 % Remmers Add TX may improve the hiding power of the coating. The substrate is best covered in these cases by using suitable primers such as Epoxy BS2000 in the same colour.

Grinding mechanical loads lead to wear marks and abrasion of the surface of the coating. This should be taken into consideration in regard to the desired service life.

For production reasons, there may be a slight difference in colour of different batches. For continuous surfaces, use only material with the same batch number.

Epoxy resins are generally not colour stable when exposed to UV-rays and weather. Colour stability can be improved by a UV-absorbing polyurethane top coat.

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

Tools, cleaning

Brush, rubber wiper, epoxy roller, mixing equipment.

Clean tools, equipment and any splashed material immediately with water while fresh.

Packaging, application rate, shelf-life

Packaging:

Tin containers.
1 kg, 2.5 kg; 10 kg and 25 kg on request.

Application rate:

The application rate depends on the state of the substrate and is approx. 0.20 to 0.25 kg/m² as a coating. As a levelling layer at least 1.8 kg/m² of the mixture plus 10 % water by weight of binder.

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: RE 02

Chem VOC Paint V (2004/42/EC):

Group (wb): j
Stage 2 (2010): max 500 g/l
Stage 1 (2007): max. 550 g/l

This product contains < 500 g/l

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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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