

Viscacid[®] BS 3000 - MATT



Article No. 6370 - 6379

Water emulsifiable, environmentally correct, coloured, 2-component, matt, epoxy resin sealant and coating.

Properties:

Environment-friendly, matt, low-odour, abrasion resistant, water dilutable, 2-component sealant that is resistant to salts (e.g. de-icing salts), diluted acids and lyes as well as oils, fuel, heating oil. Viscacid BS 3000 matt can withstand light to semi-heavy loads.

Range of use:

To be used for surface protection, mainly on floors and walls on substrates such as concrete, cement screed and cement render as well as on magnesite floors. Also for bituminous mastic concrete indoors that is not exposed to direct heat (the bitumen could run causing cracks). It is also used as an adhesive primer on old epoxy resin coatings when new coatings are applied (set up a trial surface).

Colours:

Art. Nr. 6370	Viscacid Colour Collection
Art. Nr. 6371	pebble grey
Art. Nr. 6372	silver grey
Art. Nr. 6379	special colours (available on request)

Characteristic data of the product in the packaged state:

	Comp. A	Comp. B	Mixture
Odour:	weakly amine	neutral	weakly amine
Viscosity (25° C):	approx. 730 mPas	approx. 650 mPas	approx. 1750 mPas
Density (20°C):	1.44 g/cm ³	1.14 g/cm ³	1.39 g/cm ³
Flash point:	> 100°C	> 100°C	

Solid content: 68.3 %

Mixing ratio: 5.2 : 1 parts by weight
100 : 19.2 parts by weight
4.1 : 1 parts by volume
100 : 24.9 parts by volume

Working temperature: 10°C – 30°C
Working time: 10°C approx. 180 minutes
20°C approx. 30 minutes
30°C approx. 20 minutes

Higher temperatures and larger amounts reduce, lower temperatures increase working time.

Humidity: < 80% relative humidity

Drying 20°C / 60% relative humidity:

Dust dry:	approx. 2 hours
Foot traffic:	approx. 8 hours
Can be worked over:	approx. 8-48 hours
Thoroughly hardened:	approx. 7 days
Rain tight:	approx. 8 hours

Pendulum hardness according to König:

92 sec.

Degree of gloss:

Measuring angle 20° = 2.5%
Measuring angle 60° = 18%
Measuring angle 85° = 53%

Abrasion according to Taber (1000 g load / 1000 rev.)

Test roll CS 17: 0.10 g
Test roll CS 10: 0.06 g

Water vapour diffusion as a sealant:

Sd value < 2 m

Water vapour diffusion as a coating:

Sd value < 2 m

Adhesive pull strength

on concrete: 3.7 N/mm² concrete failure
on old epoxy coating: 3.1 N/mm² concrete failure
on old PU Rofaplast KB: 2.7 N/mm² concrete failure
on old PMMA floors: no wetting and no adhesion

Adhesion to aluminium:

does not adhere

Zinc:

does not adhere

Glazed tiles:

Cross-cut adhesion test = 0

Stoneware:

Cross-cut adhesion test = 0

Earthenware:

Cross-cut adhesion test = 0

Split clinker:

Cross-cut adhesion test = 0

Substrates:

The surface to be treated must be clean, dry and absorbent. Soiling, surface laitance or layers of silicate, substances with a parting effect such as oils, grease, etc. should be removed by steel ball jetting (Blastrac), grinding or sandblasting. Remove dust thoroughly afterward with an industrial vacuum cleaner. The substrate must be dry. For further information, see the DBV Code of Practice "The Use of Cold-Cured Resins in Concrete Construction", part 2.

Technical Information Sheet

Preparation of the mixture

The two components are packaged in a special container in the proper mixing ratio. The mixture should be produced according to the DBV Code of Practice "The use of cold-cured resins in concrete construction – part 3.2 – Using cold-cured resin on concrete". The hardener component (B) is to be completely added to the resin component (A). For smaller amounts (up to 10 litres), use a mixer on a counter-current principle. A drill can be used as a drive; mix with a max. speed of 400 rpm. Observe the minimum mixing time of 2 minutes. The larger the amount to be mixed and/or the more viscous the components, the longer the material must be mixed. Streak formation indicates insufficient mixing. Especially for varying viscous components, the material adhering to the edge and bottom of the container as well as on the mixing tools should be scraped off and added to the mixture several times. Afterward, fill the mixture into a separate container and mix again. Insufficiently mixed material causes soft, incompletely cured spots. It is then ready to use and should be applied in the intended manner. Insufficiently mixed material leads to the formation of blisters and causes soft, incompletely cured spots.

Working directions:

When used as a primer, Viscacid BS 3000 matt can be diluted with up to 7% water, depending on the absorbency of the substrate.

When used as an opaque or finishing coat, it can only be diluted with up to 5% water.

When used as a scraped stopper coat or coating, it should not be diluted with water.

Sealant:

Apply Viscacid BS 3000 matt to the prepared substrate with a brush and work into the substrate thoroughly. It is especially important that the final coat is applied in an even layer thickness. This is best achieved with an epoxy roller (Art. No. 5036, 5040). The drying time between the individual coats should not exceed 48 hours. During the drying phase, it is important to have good ventilation so that the evaporating water is led off. Uneven application and poor ventilation may cause dull spots on the coating. 1 m³ of dry air can only take up 17 g of water at 20°C! Per working operation, do not apply more than 0.25 kg/m².

Scraped stopper coating or coating:

Mix Viscacid BS 3000 matt 1:1 with quartz sand 0.1-0.4 mm, mixing thoroughly and apply evenly with a smoothing trowel. Max. layer thickness 2 mm. Work through with a spiked roller. After drying but within 48 hours, seal the surface once with Viscacid BS 3000 matt.

Note:

Use only material with the same batch number for adjoining surfaces. For technical production reasons, there may be a slight difference in the colour of the individual batches. Ambient and substrate temperature should not fall below 10°C.

Tools and cleaning:

Brush, epoxy roller, lambskin roller, mixing equipment, protective gloves. Clean tools and equipment and any spilled material with water while fresh. Also clean tools before longer pauses.

Packaging, application rate and storing:

Packaging: 1 kg, 5 kg and 10 kg tin cans

Application rate:

The application rate depends on the condition of the substrate and is 0.2 kg/m² per coat when used as a sealant on smooth substrates, 0.25-0.40 kg/m² on blinded covers. When used as a coating or scraped stopper coat, 0.85 kg/m² and 0.85 kg/m² quartz sand 0.1-0.4 mm per mm layer thickness.

Shelf-life:

At least 9 months in unopened and unmixed, original containers, stored frost-free.

Safety, ecology, disposal:

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet.

GISCODE: RE 02

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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