

# DisboXID® 460 2K-EP-Grundierung



Transparent two-component epoxy resin for priming and scratch filling of mineral floor surfaces.

## Product Description

### Field of Application

As primer and scratch filling on mineral substrates underneath floor coatings including the Disbon car park system OS 8. As a bonding agent for DisboADD 946 Quarzsandmischung for producing coves and for the reprofiling of cutouts.

Note: Not suitable as a top seal.

### Material Properties

- Excellent curing at 10° C
- Weatherproof
- Suitable for wetting on a permanent basis
- Tested for exposure to moisture from the rear over the course of 250 days
- Good chemical resistance
- Meets the requirements of DIN EN 1504-2 and DIN V 18026: Surface protection systems for concrete products

### Material Base / Vehicle

Low-viscose, two-component epoxy resin, total solid according to Deutsche Bauchemie, the German association for manufacturers of construction-chemical products.

### Packaging/Package Size

25 kg container (mass 17.5 kg hobbock, hardener 7.5 kg bucket)  
600 kg container (mass 210 kg barrel (2x), hardener 180 kg barrel (1x))

### Colours

Transparent

### Storage

Cool, dry, frost-free  
Closed original packing unit can be stored for at least one year. At lower temperatures, store the material at approx. 20° C before processing.

### Technical Data

- Density: approx. 1.1 g/cm<sup>3</sup>
- Dry film thickness: approx. 95 µm/100 g/m<sup>2</sup>
- Pendulum hardness to König: approx. 150 sec.
- Shore hardness (A/D): approx. D 78
- Compressive strength: Bonding agent approx. 58 N/mm<sup>2</sup>  
Mortar 1:10 approx. 52 N/mm<sup>2</sup>
- Viscosity: approx. 700 mPas
- Tensile strength under flexion: Bonding agent approx. 75 N/mm<sup>2</sup>  
Mortar 1:10 approx. 18 N/mm<sup>2</sup>



## Application

Suitable Substrates	<p>Concrete and cement screed. The substrate must be even, dry, load-bearing, stable, firm, and free of any loose particles, dust, oil, grease or other substances that may have a separating effect. The average surface tensile strength of the substrate must be 1.5 N/mm<sup>2</sup>. The smallest single value must not be below 1.0 N/mm<sup>2</sup>. The substrates must have reached their equilibrium moisture content (concrete and cement screed: max. 4 CM-%)</p>
Substrate Preparation	<p>The substrate must be prepared using suitable mechanical procedures, such as shot blasting or diamond grinding. Existing coatings that are not sufficiently load-bearing and any soiling must be removed. Pores and cavities must be opened, the surface must have a fine-rough texture.</p>
Preparation of Material	<p>Add comp. B to comp. A and mix thoroughly with a slow-running agitator (max. 400 rpm) until a streak-free and uniform colour is achieved. Transfer the material to another container and mix again thoroughly (do not use the delivery container).</p> <p>To accelerate curing and for faster processing only add the required amount of DisboADD 903 Beschleuniger for EP resins (max. 5.5% relating to the total mass) to the hardener and mix. Only then add the hardener to the mixture.</p> <p>To prepare slanted or vertical surfaces, up to 3% by weight of DisboADD 952 Stellmittel can be added to the material.</p>
Mixing Ratio	<p>Comp. A : Comp. B = 7:3 parts by weight</p>
Method of Application	<p>Depending on application with rubber squeegee, sealing brush, medium pile roller or smoothing trowel.</p>
Surface Coating System	<p><b>Primer coat</b> Pour the mixed material onto the surface and spread the flow evenly in the opposite direction (pore seal) with a rubber brush or squeegee. To avoid void areas, rework the distributed material with a medium pile roller in a crosswise direction. A second coat of primer is required on highly absorbent substrates (primer resin penetrates, no sealed priming coat available) to seal the pores. The primer must be reworked within 24 hours. In the case of longer waiting times, sand the freshly primed surface slightly (effective pressure). Sand flow coating using DisboADD 943 and mortar screeds with DisboADD 944 (observe technical information relating to top coats). Do not sand coatings with a thickness of &lt; 1 mm. A primer that has not been sanded must be reworked within 24 hours.</p> <p><b>Scratch filling</b> <i>Roughness depths of up to 1.0 mm (measured using the sand patch test*)</i> Make filler from DisboXID 460 2K-EP-Grundierung: 1 part by weight, DisboADD 941 Quarzsandmischung 0.06-0.3 mm: 1.5 parts by weight.</p> <p><i>Roughness depths from 1.0 mm (measured using the sand patch test*)</i> Make filler from DisboXID 460 2K-EP-Grundierung: 1 part by weight, Quartz sand: 1.5 parts by weight, (DisboADD 941 Quarzsandmischung 0.06-0.3 mm+ DisboADD 943 Quarzsandmischung 0.4-0.8 mm; mixed 1:1).</p> <p>Pour the filling compound onto the primed surface. Use a smoothing trowel (in standing position use metal scraper with maximum width of 60 mm) to distribute the material over the surface and smooth out any uneven areas. Sand off the finished scratch filling as required.</p> <p>*In accordance with the Restoration Guidelines (DAfStb.), Part 3: Determination of the roughness depth</p> <p><b>Cove (5 cm radius)</b> Prime the floor surface as described above. Make mortar from DisboXID 460 2K-EP-Grundierung: 1 part by weight, DisboADD 946 Quarzsandmischung 0.01-2.0 mm: 10 parts by weight. Apply the material with the aid of an appropriate tool, e.g. a chamfering trowel, as a cove with a radius of 5 cm. Once dry, fill the surface with DisboXID 460 mixed with approx. 2% by weight of DisboADD 952 Stellmittel.</p>
Consumption	<p>Please observe system datasheet for car park system OS 8.</p>

<b>Priming coat*</b>	approx. 200–400 g/m <sup>2</sup>
<i>Priming coat sprinkling</i> DisboADD 943	approx. 800 g/m <sup>2</sup>
<b>Scratch filling *</b> <i>For even, finely rough substrates with roughness depth up to 1 mm:</i>	
DisboXID 460 DisboADD 941	approx. 660 g/mm/m <sup>2</sup> approx. 1000 g/mm/m <sup>2</sup>
<i>For uneven, rough substrates with roughness depth from 1 mm:</i>	
DisboXID 460 DisboADD 941 DisboADD 943	approx. 660 g/mm/m <sup>2</sup> approx. 500 g/mm/m <sup>2</sup> approx. 500 g/mm/m <sup>2</sup>
<i>Scratch filling sprinkling</i> DisboADD 943	approx. 1000 g/m <sup>2</sup>
<b>Coves*</b>	
DisboXID 460 DisboADD 946	approx. 150 g/m approx. 1500 g/m

\*The consumption varies due to temperature influences, type of application, tools and different spreading materials. Determine exact consumption values by applying a sample to the object.

Workability	Approx. 30 minutes at 20 °C and 60% relative humidity. The addition of DisboADD 903 Beschleuniger shortens the pot life down to 17 min. Higher temperatures shorten the pot life, lower temperatures extend it.																				
Application Conditions	<b>Material, circulating air and substrate temperature:</b> Min. 10 °C, max. 30 °C. The relative humidity must not exceed 80%. The substrate temperature must always be at least 3 C above the dew point temperature.																				
Waiting Time	The waiting times between work cycles must be at least 14 hours at 20 °C and a maximum of 24 hours. For longer waiting times, the surface of the previous work cycle must be sanded if it has not already been sanded off (when sanding, ensure that the priming coat is not sanded). If DisboADD 903 is used, sand off over the general area if the subsequent coating is not applied on the same day (max. 12 hours).																				
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Container size DisboXID 460</th> <th style="text-align: left;">Number of 0.5 l container of DisboADD 903</th> <th style="text-align: center;">At 10 ° C</th> <th style="text-align: center;">At 20 ° C</th> </tr> </thead> <tbody> <tr> <td>25 kg</td> <td>-</td> <td style="text-align: center;">36 hours</td> <td style="text-align: center;">14 hours</td> </tr> <tr> <td>25 kg</td> <td>1 container</td> <td style="text-align: center;">21 hours</td> <td style="text-align: center;">6.5 hours</td> </tr> <tr> <td>25 kg</td> <td>2 containers</td> <td style="text-align: center;">17 hours</td> <td style="text-align: center;">4.5 hours</td> </tr> <tr> <td>25 kg</td> <td>3 containers</td> <td style="text-align: center;">14 hours</td> <td style="text-align: center;">3 hours</td> </tr> </tbody> </table>		Container size DisboXID 460	Number of 0.5 l container of DisboADD 903	At 10 ° C	At 20 ° C	25 kg	-	36 hours	14 hours	25 kg	1 container	21 hours	6.5 hours	25 kg	2 containers	17 hours	4.5 hours	25 kg	3 containers	14 hours	3 hours
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Drying/Drying Time	The specified period is shortened by higher temperatures and extended by lower temperatures. Protect the applied material from moisture during the curing process, as otherwise surface defects and reduced adhesion may occur.  At 20 °C and 60% relative humidity, can be walked on after approx. 14 hours, mechanically durable after approx. 3 days, complete mechanical durability after approx. 7 days. Correspondingly longer at low temperatures. High temperature or the addition of DisboADD 903 accelerate the curing process.																				
Tool Cleaning	Immediately after use and in case of relatively long breaks in work, using DisboADD 419.																				

## Advice

German Certificates

Up-to-date information is available on request.

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Product intended for industrial processing only.

*Component A:*

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contains: bis-propane, bisphenol-F epoxy resin MW <700, oxirane, mono derivs..

*Component B:*

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Contains: 4,4'-methylenebis(cyclohexylamine), Formaldehyde, polymer with benzeneamine, hydrogenated, N,N'-bis(3-aminopropyl)ethylenediamine, N-(2-aminoethyl)-1,3-propanediamine. 0800/1895000 (free from German landlines).

Disposal

Product residues that have not been hardened and containers that have not been cleaned, must be disposed of as hazardous waste.  
Material residues: Leave base compound to cure with hardener and dispose of as waste paint.

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EU limit value for the VOC content

of this product (cat. A/j): 500 g/l (2010). This product contains max. < 150 g/l VOC.


Giscode

RE30

Further Details


Please refer to the safety data sheets.  
When processing the material, the Disbon Building Protection Processing Information must be observed.

CE Labelling

	
Disbon GmbH Roßdörfer Straße 50, D-64372 Ober-Ramstadt Germany	
<b>13</b>	
<b>1119</b>	
DIS-460-012483 EN 1504-2:2004	
Protection of surface - Coating EN 1504-2: ZA.1d, ZA.1e, ZA.1f und ZA.1g	
Disboxid PHS-System OS 8 / OS 11 a/b / OS F a/b	
Abrasion resistance	Loss of mass < 3000 mg
CO <sub>2</sub> permeability	S <sub>D</sub> > 50 m
Water vapour permeability	Class III
Capillary water uptake and water permeability	w < 0.1 kg/m <sup>2</sup> x h <sup>0,5</sup>
Resistance to temperature changes	≥ 2.0 (1.5) N/mm <sup>2</sup> (OS 8) ≥ 1.5 (1.0) N/mm <sup>2</sup> (OS 11)
Resistance to strong chemical corrosion	Loss of hardness < 50%
Crack bridging capability	B 3.2 (-20°C) (OS 11)
Impact resistance	Class I
Pull-off test to assess the adhesive strength	≥ 2.0 (1.5) N/mm <sup>2</sup> (OS 8) ≥ 1.5 (1.0) N/mm <sup>2</sup> (OS 11)
Fire performance	Class E <sub>fl</sub>
Grip	Class III

**EN 1504-2**

EN 1504-2 "Products and systems for the protection and repair of concrete structures – Part 2: Surface protection systems for concrete" details the requirements for the surface protection processes. Products that comply with one of the above standard must bear the CE mark. The mark is provided on the container. The declaration of performance according to the Construction Products Regulation (BauPVO) is available online at [www.disbon.de](http://www.disbon.de). For use in Germany, additional standards apply to the area of structural stability. Conformity is indicated by the "Ü" symbol on the container. This is also verified by the system for conformity assessment (2+) by means of checks and tests completed by the manufacturer and recognised notified bodies.

	
Disbon GmbH Roßdörfer Straße 50, D-64372 Ober-Ramstadt Germany	
<b>13</b>	
DIS-460-012483 EN 13813:2002	
Synthetic resin screed/synthetic resin coating for use in indoor areas EN 13813:SR-E <sub>fl</sub> -B1,5-AR1-IR4	
Fire performance	E <sub>fl</sub>
Release of corrosive substances	SR
Water permeability	NPD
Abrasion resistance	≤ AR1
Tensile strength	≥ B1.5
Impact resistance	≥ IR4

**EN 13813**

The standard EN 13813 "Screed material and floor screeds – Screed materials – Properties and requirements" specifies the requirements for screed materials that are used for floor constructions in indoor areas. Synthetic resin coatings and seals are also covered by this standard. Products that comply with the above standard must bear the CE mark. The mark is provided on the container. The declaration of performance according to the Construction Products Regulation (BauPVO) is available online at [www.disbon.de](http://www.disbon.de).

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