

### **Rhenopox EB 04.1 (2k Epoxy Industry) – component A**

#### **Art. no.: A 5167**

- Products consist of a mixture of component A = Rhenopox EB 04.1 **and** component B = Rhenopox EH 11.1-H (hardener)
- Color tones: white gray VP6266 (approx. RAL 7004); light gray VP5964 (approx. RAL 7046)
- Water-proof floor coating, eco-friendly when fully hardened
- Solvent-free, epoxy resin based, VOC- free (= 0 %)

**Application areas:** Only for interior use with higher loading, as a thick-layer, joint-free floor coating for industrial areas such as garages, basements, storage room, clean room. We recommend using material with the same batch numbers per application to ensure the exact same color. For professional use.

**Features:** 2- component industrial floor sealant based on epoxy resin, to be processed with hardener. The product is solvent free and therefore low in odor. Very hard-wearing and permeable – water vapor from the subsurface can escape, but water cannot penetrate from the outside. This offers security against any remaining moisture in the subsurface. Self-leveling from a layer thickness of 1.5 mm. Accessible by forklifts. Avoid access by transporters with iron wheels. All-In-One material – primer, putty and finishing coat. Use as putty by adding sand (1:1.5) – mix component A+B, then add the sand. Optimal adhesion on cement substrates and between layers. Can be cleaned with pressure washer. Resistant against gasoline, water, road salt and many cleaning products. Free from plasticizers.

- Can be repaired, coating is self-linking.
- Tec-Bond-System enables restoration coating.
- Noise-Brake-System reduces acoustic noise.

**Test results:** The following test values are being reached at 20°C respectively 30°C.

	20°C	30°C
Pot life:	45 minutes	30 minutes
Cure time:	24 hours	18 hours
Maximum time between coats:	36 hours	16 hours
Light traffic use after:	24 hours	18 hours
Full traffic use after:	48 hours	24 hours
Resistance against chemical influences:	7 days	5 days
Loading strength:	90 N/mm <sup>2</sup>	
Elasticity:	75 N/mm <sup>2</sup>	
Tensile strength:	37 N/mm <sup>2</sup>	
Water absorption:	0.05%	
Shore D Hardness:	84	

**Chemical resistance:** The fully cured coating has been tested on resistance.

Lactic Acid 10%	Resistant	1.2%
Citric Acid 10%	Resistant	0.4%
Acetic Acid 10%	Resistant	1.6%
Hydrochloric Acid 10%	Resistant	0.7%
Sulphuric Acid 10%	Resistant	0.9%
Nitric Acid 25%	Resistant	0.3%
Sodium Hydroxide 50%	Resistant	0.4%
Ammonia 10%	Resistant	0.7%

**Processing instructions:**

- Mixture: Mix 5 parts by weight (kg) of component A + 1 part by weight (kg) of component B. Both packages form one unit. Stir component A well, add component B while stirring and mix thoroughly for 2-3 minutes at 300-400 rpm with stirring machine. Fill the mixed material into a clean container to avoid residue of unmixed components. Stir again briefly with the stirring machine. Mixture must be absolutely homogenous! Directly usable without latency.  
**This mixture cannot be diluted with water.**  
Do not mix with other materials.
- Layer strength: A base layer of 1mm and top-coat layer of 1-1.5mm generally suffice.
- Degree of gloss: Glossy
- Application: Pour in streaks and use a roller or spatula/smoothing trowel (see page 4) to spread in the required layer strength.  
If bubbles have been formed due to ascending moisture, the freshly applied coat may be aired by a spiked roller after a few minutes.
- Pot life: Ca. 40 min at +20°C. / approx. 25 minutes at approx. +40°C. The end of the application time becomes clearly visible when the material thickens.
- Processing conditions: Not below 12°C and not above 85% humidity. Substrate and ambient air must not be colder. We recommend processing at temperatures between +15°C and +25°C.
- Substrate: Cement, concrete, plaster and cement tiles.
- Consumption: ca. 1.5 mm layer thickness corresponds to 1.6 kg/m<sup>2</sup>
- Drying time: At +20°C, light use possible after 1- 2 days. Full use after 7 days.  
Different temperatures change the drying time.
- Re-coating: At normal layer strength, carefully walkable and re-coatable after 24 hours. Can also still be re-coated after one week.
- Colorless top-coat varnish: Always necessary, since the organic pigments (e.g. coffee, red wine), as well as chemicals (e.g. disinfectants) or acids can lead to changes in color. Any rubbing strains can lead to a scratching of the surface. The functionality will not be affected.
- Slip resistance: If slip-resistance is required, please proceed as follows:  
  1. Primer, 1x with roller
  2. Intermediate coating, 1x with roller
  3. Sprinkle siliceous sand while coat is still wet and remove excessive sand after drying.
  4. Colorless top-coat: Optional colorless top-coat using Rhenopox EB-KL 09.1 Klarlack (with hardener EH-12.1 LH), 1x with roller.
- Decoration: For a decorative surface, sprinkle "Rhenocoll Color Flakes" into the last wet coat. Top-coat with clear varnish after one day at the earliest, because the Color Flakes cannot take any strain. Use clear varnish Rhenopox EB- KL 09.1 (with hardener EH-12.1 LH). If applied with roller, the flakes will leave a textured surface. In order to obtain a smooth and even surface, the clear varnish must be applied with a layer thickness of at least 1.5mm.
- Application using a roller: Roller has to be absolutely dry. Do not moisten.
- Cleaning of the tools: Wash tools immediately after use with Rhenocoll Verdünner 140/1400 (thinner).

**Pretreatment:** The substrate must be sustainable, clean, dry and free of separative substances such as oil, grease and wax. Remove old coatings with bad adhesion. Remove dust. Observe DIN 13813.

**VOC 2010:** Cat J / base wb / max value 140 g/L / actual value 0 g/L

**Storage:** Dry and frost-free. Storable up to 6 months in the unopened, original container.

**Rhenopox EB 04.1 Labeling according to regulation (EC) No 1272/2008:**

WARNING – H315, H319, H317, H411

**Rhenopox EH 11.1-H Labeling according to regulation (EC) No 1272/2008:**

DANGER – H332, H302, H314, H318, H317, H412

**Safety advice:** During processing, common protection measures and regulations according to the authorized trade association must be observed. Safety-relevant data and instructions regarding disposal can be found in the safety data sheet.

**Supply units:**

5 kg pail  
25 kg hobbock

**Service:**

Our service team for application technology is available to you at any time without obligation.

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Fax: ++49 (0)6384 99 38 - 112  
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### Application method and Coating end-result

Rhenopox EB 04.1 can be used to create a smooth or textured surface. This allows creating slip-resistant coatings for e.g. ramps in parking lots and smooth coatings for even floor surfaces. After mixing Rhenopox EB 02.1 / EB 04.1 / EB 06.1 as component A with Rhenopox EH 11.1 H as component B, the following set-ups are possible:

### Set-up steps for textured coat



Apply Rhenopox EB mixture as:

**1. Primer**

0,5-1,0 mm, 250 g/m<sup>2</sup> - with roller

**2. Intermediate coat**

1,5 mm, 250 g/m<sup>2</sup> - with roller

**3. Top coat**

1,5 mm, 250 g/m<sup>2</sup> - with roller

**Drying time**

between set-up steps: approx. 12 hours

### Set-up steps for smooth coat



Apply Rhenopox EB mixture as:

**1. Primer**

0,5-1,0 mm, 250 g/m<sup>2</sup> - with roller

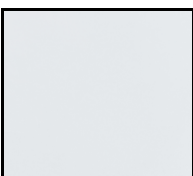
**2. Top coat**

1,5 mm, 1600 g/m<sup>2</sup> - by pouring  
self-spreading, property distribute with toothed spatula

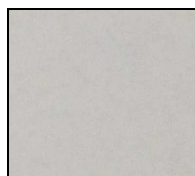
**Drying time**

After applying primer: approx. 12 hours

### Color tones Rhenopox EB 04.1:



**White gray**  
**VP6266**



**Light gray**  
**VP5964**

**Attachment: „Tools“**



**Bowl trowel or finishing trowel**  
to spread material and especially to fill holes



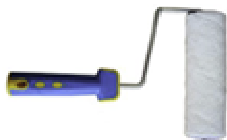
**Long trowel with tip**  
to spread material and to work on corners



**V-notch trowel**  
to spread material and to fill holes



**Spiked roller**  
for subsequent airing of coated surfaces



**Low-pile roller**  
for application of all epoxy coatings



**Foam roller**  
for application of epoxy clear varnish,  
top-coat