Epoxy Coating Systems – Primers

WEBAC® 4270T CE

Range of application

- Special primer for oily/wet substrates
- Sealing of mineral surfaces
- Adhesive agent:
  - For coatings on oily substrates
  - Between contaminated concrete and (mineral) re-profiling
  - New on existing concrete
  - For fast reworking e.g. with polyurea- and PU-coating
- Epoxy mortar as negative-side waterproofing for concave moldings
- Resin screed according to DIN EN 13813

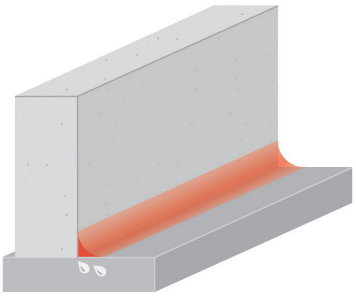
Properties

- Epoxy-based primer
- Tack-free curing also at low temperatures
- Compatible with oil/moisture
- Good wetting of the substrate
- Resistant to mechanical stress
- Suitable for pedestrians and rolling traffic
- Total solid*

Test certificates

- Declaration of performance in accordance with the Construction Products Regulation (system 4)
- Test certificate according to KTW-BWGL recommendations: sealants, lubricants
- Environmental Product Declaration (EPD)
- List of chemical resistance

Examples



Mortar for concave moldings

Adhesive agent for oily substrates

*according to test method by Deutsche Bauchemie e.V. (German Industry Association for Manufacturers of Construction Chemicals)

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Technical Information

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Technical data	Values			
Mixing ratio	2 : 1 parts by volume			
Density, 20 °C (DIN ISO 2811)	**Comp. A** **Comp. B**	≈ 1.1 g/cm³ ≈ 1.0 g/cm³		
Pot life (WEBAC test specification based on DIN ISO 9514)		**30 °C** ≈ 8 min	**20 °C** ≈ 20 min	**12 °C** ≈ 30 min
Application temperature Building structure and material	> 5 °C			
Viscosity of mixture (WEBAC test specification based on DIN ISO 3219)		**30 °C** ≈ 400 mPa·s	**23 °C** ≈ 770 mPa·s	**12 °C** ≈ 1,800 mPa·s
Adhesive strength on concrete 7 d, 21 °C (DIN EN 1542) wet (DIN EN 13578)	**dry** **oily** **wet**	≈ 4.0 MPa (N/mm²) ≈ 4.1 MPa (N/mm²) ≈ 3.6 MPa (N/mm²)		
Compressive strength 7 d, 21 °C (DIN ISO 604)	≈ 90 MPa (N/mm²)			
Bending tensile strength 7 d, 21 °C (DIN ISO 178)	≈ 110 MPa (N/mm²)			
E modulus 7 d, 21 °C (DIN ISO 527)	≈ 2,600 MPa (N/mm²)			
Shore hardness D 7 d, 21 °C (DIN ISO 868)	≈ 85/80			
CE classification (DIN EN 13813)	SR - B2.0 - AR0.5 - IR4			
Fire behavior (DIN 4102-4, 2.3.2)	B2			
GISCODE	RE55			
EPD	EPD-DBC-20220176-IBF1-EN			
Exposure scenarios according to REACH	Assessment of industry standard application			

The specified data are values determined under laboratory conditions and are subject to a certain fluctuation. Deviations are possible in practice depending on the respective object situation.

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Preparatory work

Structural analysis:

- Checking the substrate
  - Moisture condition (dry, damp or wet)
  - Surface strength (> 1.5 MPa (N/mm²))
  - Concrete quality
  - Condition of the surface (dirty, oily)
- Observe dew point

This results in:

- Selection of suitable material
- Pre-treatment of the substrate if necessary

The substrate must be open-pored, dry and free of dust and oil; if necessary, pre-treat the substrate.

Application instruction

- Application by brushing, rolling, with rubber squeegee or trowel
- The mixture must be used completely within pot life
- Only use pure WEBAC material without any residues of cleaning agents or other impurity
- The pot life/curing time are influenced by the amount of material/layer thickness and the temperature of the material/building structure – higher temperatures accelerate, lower temperatures slow down the reaction
- Observe Dew Point Table (the substrate temperature must be 3 °C above dew point temperature to avoid condensation)

Mixing

- Empty component A and B at the given mixing ratio into a mixing vessel (make sure that the containers are completely empty) and mix homogenously
- Transfer mixed material to another clean mixing vessel and stir briefly

Application

Primer

- Apply the primer to the substrate by brush, roller or rubber squeegee
- Apply the material evenly covering the entire surface in one or several operations (depending on the substrate's absorbency) avoiding puddle formation
- In case of oily substrates, the primer must be worked in thoroughly
- The primer must fill all pores and cavities/voids
- It is not necessary to scatter oven-dried quartz sand onto the primer if it is coated within 24 hours

Scratch- and leveling primer

- Fill the material with oven-dried quartz sand, mix homogenously and distribute on the surface by flat trowel, scraper or rubber squeegee immediately after mixing
- When working on sloping or vertical surfaces the material can be additionally rendered thixotropic by adding a set-up agent (**WEBAC® ST200/300**)
- If necessary, vent the installation and leveling finish with a porcupine roller and scatter with oven-dried quartz sand

Final work and cleaning

- Clean the equipment with **WEBAC® Cleaner A**
- Never use **WEBAC® Cleaner A** for diluting products; avoid mixing with the primer
- Use **WEBAC® Cleaner B** for dissolving cured material
- Observe the technical data sheets of the cleaners used

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Product data

Material consumption depending on the substrate's absorbency	**Primer**	≈ 0.3 kg/m²
	Scratch primer mixing ratio 1 : 3 parts by weight, per mm layer thickness	≈ 0.3 kg/m² **WEBAC® 4270T** with 900 g/m² quartz sand (grain size 0.3 – 0.7 mm)
	Epoxy mortar mixing ratio 1 : 10 parts by weight, per mm layer thickness	≈ 0.3 kg/m² **WEBAC® 4270T** with 3.0 kg/m² quartz sand (grain size 0.1–1.2 mm, mixture of 0.1 – 0.3/0.3 – 0.7 and 0.7–1.2 mm (per 33 parts by weight))

Delivery form	**Comp. A** 10.25 kg	**Comp. B** 4.6 kg
Storage	• Between 5 °C and 30 °C • Protected from moisture • In original, sealed containers	
Compatibility	• Compatible with masonry mortar, concrete, steel, foil, cable sheathing, metal and WEBAC injection materials	
Resistance	• Resistant to diluted acids and alkalis, lubricants, oil and fuels	

Occupational safety

The safety regulations of the industrial trade associations and the WEBAC Safety Data Sheets are to be observed at all times when working with this product. Safety data sheets according to Regulation (EC) No. 1907/2006 (REACH) must be accessible to all persons responsible for occupational safety, health protection and the handling of materials. For further information, please see the separate information sheet “Occupational Safety” in our product catalog or www.webac.com.

Waste disposal

In Germany, empty containers can be disposed of via “Interzero Circular Solutions Germany GmbH” observing the respective terms and conditions. It is not possible to dispose of containers at production facilities or delivery warehouses. For more detailed information, please see the separate information sheet “Disposal Notes” in our product catalog or www.webac.com and the safety data sheets.

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