



ARDEX B 16

PCC concrete repair mortar

- Fibre-reinforced PCC mortar for repairing, filling and smoothing defects with exposed reinforcement in load-bearing concrete elements
- Very good processing properties
- High stability, low shrinkage
- For layer thicknesses from 5 to 70 mm
- Highly resilient, certified as R4 PCC mortar in accordance with EN 1504-3
- Protects reinforcement from corrosion, certified according to EN 1504-7
- Resistant to frost, de-icing salts and sulphates, chloride-free



Area of application

For indoor and outdoor use. Walls, floors and ceilings.

For filling and reprofiling holes and breakouts with exposed reinforcement. For repairing and levelling concrete surfaces.

For repairing precast concrete elements and reinforced concrete structures such as balcony slabs, beams and columns. Protects the reinforcement from corrosion.

Settings

Ready-to-use, fibre-reinforced PCC concrete repair mortar with corrosion protection.

High strength. Certified according to EN 1504-3 "Static and non-static repair" as R4 mortar for static repair. Can be applied manually or mechanically. Low shrinkage during hardening minimises crack formation.

Resistant to frost, de-icing salts and sulphates. Contains active pigments that protect the reinforcement from corrosion. Certified according to EN 1504-7 "Corrosion protection of reinforcement".

High wear resistance.

Can be applied in layer thicknesses of 5 to 70 mm per working pass.

Preparation of the surface

The substrate must be solid, non-slip and free of dust, dirt, paint coatings, plaster residues, lime splashes and release agents.

Non-load-bearing, loose or damaged concrete must be removed down to the rough and load-bearing mineral core concrete; any reinforcement must be exposed so that it can be completely cleaned and coated with mortar. The exposed reinforcement must be mechanically cleaned to at least surface cleanliness grade SA 2 using suitable methods (e.g. sandblasting or high-pressure water jetting).

Immediately after complete rust removal, the exposed reinforcement must be completely mortared with ARDEX B 16 without leaving any cavities.

During installation and curing, the substrate must have a minimum temperature of +5°C and a maximum temperature of +30°C.

In cases of doubt, a qualified planner or structural engineer should be consulted to assess the load-bearing capacity of the damaged concrete component, in particular to assess the reinforcement, concrete cover, etc., and to determine the necessary repair measures. Prestressed concrete must never be repaired with ARDEX B 16 without expert planning.

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Manufacturer with certified
QM/UM system according to
EN ISO 9001/14001

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Pre-treatment of the substrate

The substrate must be moistened in good time before applying the mortar. Use a spray bottle, wet brush or sponge, for example.

The substrate must be damp but free of standing water.

Processing

Pour clear water into a clean mixing container and stir vigorously, adding enough powder to produce a smooth, paste-like, lump-free mortar with good consistency.

Mix ARDEX B 16 either in a compulsory mixer or with a suitable hand mixer (e.g. Collomix). To mix 25 kg of ARDEX B 16 powder, approx. 4–4.25 litres of water are required.

After a curing time of approx. 2 minutes and further stirring, the mortar is workable for approx. 60 minutes and can be applied in a single operation up to a layer thickness of 70 mm.

To do this, press ARDEX B 16 PCC concrete repair mortar onto the moistened substrate in layers, pressing firmly, and wipe off with a straight edge or trowel or shape the edges.

The completely cleaned, exposed reinforcement must be completely covered with mortar without any voids. A cover of 25 mm is recommended. Once the mortar has started to set,

smoothing or felting with a sponge or rubbing board can begin.

Aftercare

The mortar must be protected from premature drying, frost, drafts, intense heat or direct solar radiation by suitable measures (e.g. covering with plastic sheets, etc.).

Depending on the conditions at the construction site, it is recommended to treat the surface with a wet sponge board or sponge 1–2 hours after application.

Once sufficiently hardened, the desired surface finish can be achieved with, for example, ARDEX B 10 Concrete thin-coating compound, ARDEX B 12 Concrete finishing compound, ARDEX B 14 Concrete repair mortar or ARDEX F 11 Facade levelling compound.

Note

The information in our safety data sheets must be observed. For commercial use only!

Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Mixing ratio approx.	Component A 4 - 4.25 l Water 1 Part water	Component B 25 kg powder 4.2 - 4.5 RT powder
Material requirement approx.	Material requirements 1.80 kg/m ²	Condition Per mm order thickness
Bulk density approx.	1,40 kg/l	
Fresh weight approx.	2,10 kg/l	
Application properties		
Processing time approx.	60 Minute(s)	
Can be walked on after approx.	8 Hour(s)	
Application Ambient conditions	+20°C	
Mechanical properties		
Bending tensile strength approx.	Time After 28 days	Bending tensile strength approx. 8 N/mm ²
Compressive strength approx.	Time After 28 days	Compressive strength of approx. 48 N/mm ²
Product details		
PH value approx.	13	
Corrosion behaviour	Contains corrosion-inhibiting components	
Labelling according to GHS/CLP	See relevant safety data sheet	

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Labelling according to ADR	See relevant safety data sheet
EMICODE	EC 1 PLUS = very low emissions PLUS
GISCODE	ZP1 = cementitious product, low chromate content
Packaging	Sacks containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.

