



ARDEX B 14

Concrete repair mortar

- Based on ARDEX WSZ Rapid-setting Cement 32.5 R-SF, approval no. Z-3.12-1206
- For repairing, filling and smoothing imperfections in load-bearing concrete components
- Hard and durable like concrete
- ARDEX B 14 with ARDEX E 100 Wittener Baudispersion additive meets the requirements for use in repair work on concrete surfaces.



Area of application

For indoor and outdoor use, walls and ceilings. On dry or damp substrates.

Repair of load-bearing components made of old and new concrete in thick and thin layers, such as:

- Filling holes, breakouts and imperfections,
- Repairing and smoothing wall and ceiling areas made of concrete, exposed concrete, precast concrete elements and cement plaster.

Extended with sand for filling and levelling work, for example before laying tiles using the thin-bed method, on concrete, cement plaster and masonry.

Art

Grey powder, manufactured with ARDEX WSZ Rapid Cement 32.5 R-SF, which is generally approved by the IfBt for use in building construction.

When mixed with water, it forms a smooth, paste-like, stable mortar that is easy to apply and hardens in any layer thickness through hydration and drying.

The cement-grey levelled surfaces are water- and weather-resistant.

Preparation of the surface

The substrate can be dry or damp, but must be solid, non-slip and free of dust, dirt, paint coatings, plaster residues, lime splashes and release agents. Loose edge areas must be removed down to the solid core.

Metals must be protected against corrosion, which also serves as a bonding agent.

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.

Approximately 6.25 litres of water are required to mix 25 kg of ARDEX B 14 powder.

For repair work on concrete surfaces, approx. 6.25 litres of mixing liquid consisting of 1 part ARDEX E 100 + 2 parts water is required to mix 25 kg of ARDEX B 14 powder.

The mortar can be processed for approx. 30 minutes at +18°C to +20°C and can be applied in a single operation up to 5 mm thick without stretching and to any thickness when stretched. It hardens by hydration and drying at normal temperature in approx. 90 minutes to such an extent that further processing, e.g. felting and smoothing with ARDEX B 14 concrete repair mortar, is possible.

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EN ISO 9001/14001

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Higher temperatures shorten, lower temperatures extend the processing and hardening time.

For filling and levelling work over 5 mm layer thickness, ARDEX B 14 mortar must be extended with quartz sand as follows:

Mix washed	Grain size	Mixing ratio	
		Mortar	Mixing material
Sand	0 - 1 mm	1.0 RT	0.3 RT
Sand	0 - 4 mm	1.0 RT	0.5 RT
Gravel	4 - 8 mm	1.0 RT	1.0 RT

To match the colour of surrounding concrete surfaces, the cement-grey ARDEX B 14 mortar can be coloured with cement-compatible colour pigments. These should first be mixed with water to form a paste and then added to the ARDEX B 14 mortar. The colour additive can make up to 3% by weight of the ARDEX B 14 powder.

In case of doubt, carry out a test application.

ARDEX B 14 concrete repair mortar must be applied at temperatures above +5°C.

Aftercare

Once completely dry, ARDEX B 14 can be painted over with lime-resistant paint. The drying time depends on the thickness of the levelling compound layer, the prevailing weather

conditions and the moisture content of the substrate.

Substrates that are still damp may cause efflorescence.

The processing recommendations given by the paint manufacturers for paint coatings on cement-bound substrates must be observed, regardless of whether the levelling compound is applied over the entire surface or only in certain areas.

Please note

For larger repairs and repair work on concrete or reinforced concrete components, always use concrete or mortar made with ARDEX WSZ Schnellzement 32.5 R-SF, which is approved by the general building authorities.

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 6.25 l Water 1 Part water	Component B 25 kg powder 3.25 RT powder
Material requirement approx.	Material requirements 1.40 kg/m ²	Condition Per mm order thickness
Bulk density approx.	1,20 kg/l	
Fresh weight approx.	1,90 kg/l	
Application properties		
Processing time approx.	30 Minute(s)	
Application Ambient conditions	+20°C	
Mechanical properties		
Bending tensile strength approx.	Time After 7 days After 28 days	Bending tensile strength approx. 4 N/mm ² 7 N/mm ²
Compressive strength approx.	Time After 7 days After 28 days	Compressive strength of approx. 15 N/mm ² 20 N/mm ²
Product details		
PH value approx.	12	
Corrosion behaviour	Does not contain any components that promote corrosion on steel	
Labelling according to GHS/CLP	See relevant safety data sheet	
Labelling according to ADR	See relevant safety data sheet	

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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.

