



ARDEX B 12

Concrete finishing compound

- Cement base
- For smoothing and filling cavities
- Waterproof and weatherproof



Area of application

For indoor and outdoor use, walls and ceilings.

For smoothing, repairing, levelling and coating wall and ceiling areas made of exposed concrete, precast concrete elements, cement or lime-cement plaster and raw masonry.

For filling cracks, holes and large depressions in walls and ceilings.

For smoothing interior wall surfaces made of aerated concrete.

Art

Grey powder based on cement.

When mixed with water, it forms a smooth, paste-like, stable mortar that is easy to work with and, through hydration and drying, hardens in any layer thickness to form an almost tension-free, vapour-permeable mass with a cement-grey colour, which is water- and weather-resistant and adheres practically insolubly to any suitable substrate.

Preparation of the surface

The substrate can be dry or damp, but must be non-slip, solid and free of dust, dirt and other separating agents.

Paint coatings, plaster residues, lime splashes, etc. must be removed.

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 mortar free of lumps.

Approximately 8.5 litres of water are required to mix 25 kg of ARDEX B 12 powder.

The mortar can be worked for approx. 45 minutes at +18°C to +20°C and can be applied in a single operation in layers several millimetres thick without being stretched, or in layers of any thickness if stretched. It hardens by hydration and drying at normal temperature in approx. 2 hours to such an extent that further processing, such as grinding or smoothing with ARDEX B 12 concrete filler, is possible.

For compound layers from 5 mm, ARDEX B 12 mortar should be extended with washed sand of 0 to 4 mm grain size up to one third of the mortar volume; for application thicknesses over 10 mm, gravel of 4–8 mm grain size should be used for extending.

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To match the colour of the surrounding concrete surfaces, the cement-grey ARDEX B 12 concrete filler can be lightened with ARDEX F 11 Facade Filler (white) or coloured with cement-bound colour pigments. ARDEX F 11 powder can be stirred into ARDEX B 12 mortar in any quantity. Colour pigments should first be mixed with water to form a paste and then mixed into the ARDEX B12 mortar. The colour additive can make up to 5% by weight of the ARDEX B 12 powder.

Settling cracks can be closed with ARDEX B 12. Fine settling or plaster cracks must be widened before filling with ARDEX B 12 mortar. In the event of building movement, the cracks may reappear.

In case of doubt, a test application is recommended.

ARDEX B12 Concrete finishing compound should be applied at temperatures above +5°C.

Aftercare

Once completely dry, ARDEX B 12 can be painted over with lime-resistant paint. The drying time depends on the thickness

of the coat and the prevailing weather conditions. 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 has been applied to the entire surface or only in places.

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 8.5 l Water 1 Part water	Component B 25 kg powder 2.75 RT powder
Material requirement approx.	Material requirements 1.20 kg/m ²	Condition Per mm order thickness
Bulk density approx.	1,10 kg/l	
Fresh weight approx.	1,70 kg/l	
Application properties		
Processing time approx.	45 Minute(s)	
Application Ambient conditions	+20°C	
Mechanical properties		
Bending tensile strength approx.	Time After 7 days After 28 days	Bending tensile strength approx. 3 N/mm ² 5 N/mm ²
Compressive strength approx.	Time After 7 days After 28 days	Compressive strength of approx. 8 N/mm ² 10 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	
EMICODE	EC 1 PLUS = very low emissions PLUS	
GISCODE	ZP1 = cementitious product, low chromate content	
Packaging	Sacks containing 25 kg net	

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Storage

Can be stored in dry rooms for approx. 12 months in the original sealed container.

	
ARDEX Baustoff GmbH Hürmer Straße 40 A-3382 Loosdorf Austria	
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EN 1504-3:2005	
ARDEX B 12 Polymer modified cementitious mortar (PCC) for repair (non-structural) of concrete structures EN 1504-3:R1	
Compressive strength:	class R1
Chloride ion content:	$\leq 0.05 \%$
Adhesive bond:	$\geq 0.8 \text{ N/mm}^2$
Restrained shrinkage/expansion:	NPD
Carbonation resistance:	NPD
Elastic modulus:	NPD
Thermal compatibility Part 1 -	
Freeze/thaw attack with de-icing salt:	$\geq 0.8 \text{ N/mm}^2$
Skid resistance:	NPD
Coefficient of thermal expansion:	NPD
Capillary absorption:	NPD
Reaction to fire:	NPD
Hazardous substances:	Compliance with 5.4 of EN 1504-3