



ARDEX X 30

Setting mortar

- High safety due to fibre reinforcement
- For mortar thicknesses up to 30 mm
- No efflorescence thanks to special additives
- Easy processing
- No additional bonding slurry required
- High strength



Area of application

Indoor and outdoor. Floors.

For laying moisture-resistant and dimensionally stable natural and concrete stone tiles using thin, medium and thick bed methods.

Excellent for laying slabs with large thickness tolerances and high dead weights.

Laying steps and risers made of concrete and natural stone slabs using the medium and thick-bed method.

Art

Powder with special cements, fillers, special additives and flexible plastics. When mixed with water, it forms a smooth, plastic mortar that hardens through hydration.

Preparation of the surface

The dry or damp substrate must be solid, load-bearing, rigid, free of dust, impurities or release agents.

Gypsum substrates and absorbent or ground calcium sulphate screeds must be dry and primed with ARDEX P 51 Adhesive and Priming Dispersion, diluted 1:3 with water.

On dense and smooth substrates indoors, such as old tiles, Terrazzo, natural stone, mastic asphalt and chipboard, ARDEX P 4 READY Multifunctional Primer should be applied as a bonding agent. ARDEX P 82 Synthetic Resin Primer should be used on metal substrates.

In permanently wet areas, ARDEX waterproofing compounds must be applied to tile coverings as a bonding agent and waterproofing.

The tiles can be laid with ARDEX X 30 after the primers have dried.

Processing

pour clear water into a clean mixing container and add ARDEX X 30 powder, stirring vigorously until a smooth, lump-free mortar is obtained.

For laying and levelling work, use approx. 8.25 litres of water to mix 25 kg of ARDEX X 30 powder. Adjust the mortar consistency depending on the intended application, layer thickness, type of substrate and format of the tiles and slabs.

The working time at +20°C is approx. 70 minutes.

After this, setting begins. Mortar that has started to set must not be diluted with water, stirred or mixed with fresh mortar.

Higher temperatures shorten, lower temperatures extend the working time and the time until the surface can be loaded. In case of doubt, carry out test bonding.

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

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Levelling Wall and Floor

ARDEX X 30 Setting mortar can be used to fill holes and depressions and to level uneven substrates in layers up to 30 mm thick. The levelling layers are hard enough to allow installation work to begin after approx. 3 - 4 hours. For large-area levelling work, we recommend using ARDEX AM 100 Levelling Mortar or ARDEX AR 300 Multi-Purpose Mortar. Self-levelling compounds such as ARDEX K 36 NEW Levelling Compound, indoor and outdoor, are also suitable for indoor floor areas.

Movement Floor

Apply mortar to the substrate and comb with a notched trowel or medium-bed trowel depending on the laying method.

Natural and concrete stone slabs must be coated thinly with ARDEX X 30 on the back before installation. In the thick-bed method, the mortar is applied as usual with a trowel. Ensure that the slabs are completely embedded.

For very large format tiles and slabs, depending on the flatness of the facing material and the substrate, the floating-buttering method should be used.

The mortar should only be applied to areas large enough that the tiles and slabs can still be easily pushed or tapped into the moist mortar bed.

If the mortar is applied immediately after mixing, the setting time is approx. 30 minutes and the correction time approx. 15 minutes. Tiles and slab coverings can be walked on can be walked on approx. 3–4 hours after laying and grouted after approx. 24 hours.

Attach Wall

Apply mortar in the required layer thickness to the rear sides of the panels and apply and tap in as in the normal thick-bed method. The lump method must not be used.

Please note

When laying tiles on building boards, ensure that they are fixed to the substructure in a way that is resistant to twisting and dimensionally stable.

ARDEX sealing compounds must be used for waterproofing measures prior to installation.

The products of the ARDEX natural stone system are suitable for the discolouration-free installation of marble and other natural stones in interior areas.

ARDEX WA epoxy adhesive and grout should be used in spas and thermal baths.

ARDEX N 23 W MICROTEC natural stone adhesive, white, should be used for fixing and laying natural stone slabs with a translucent character in interior areas.

When laying tiles on shrinking substrates, the field sizes must be limited by arranging expansion joints.

ARDEX X 30 Setting mortar must be processed at temperatures above +5°C.

Note

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

Additional information

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

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

Technical data according to ARDEX quality standard

Mixing ratio approx.	Component A 8.25 l water 1 Part water	Component B 25 kg powder 2.75 RT powder	
Material requirement approx.	Material requirements 3.80 kg/m ² 1.10 kg/m ²	Toothings (mm) 10 x 10 x 10	Condition On smooth substrates Per mm order thickness
Bulk density approx.	1,10 kg/l		
Fresh weight approx.	1,60 kg/l		
Application properties			
Processing time approx.	70 Minute(s)		
Insertion time (EN 1346) approx.	30 Minutes		
Correction time approx.	15 Minutes		
Can be walked on after approx.	3 - 4 Hour(s)		
Application Ambient conditions	+20°C		



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Mechanical properties

Bending tensile strength approx.	Time	Bending tensile strength approx.
	After 1 day	2.0 N/mm ²
	After 7 days	3.0 N/mm ²
	After 28 days	3.5 N/mm ²
Compressive strength approx.	Time	Compressive strength of approx.
	After 1 day	8 N/mm ²
	After 7 days	10 N/mm ²
	After 28 days	15 N/mm ²

Product details

Suitable for underfloor heating	Yes
Tested according to DIN EN 12004	C2 E
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	Bags containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.

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16774

EN 12004:2007+A1:2012

16774 ARDEX X 30, EN 12004:C2E
Improved cementitious adhesive with extended
open time for internal and external tiling

Reaction to fire:	A1
Bond strength	
Initial tensile adhesion strength:	$\geq 1.0 \text{ N/mm}^2$
Durability of bond strength	
Tensile adhesion strength after heat ageing:	$\geq 1.0 \text{ N/mm}^2$
Tensile adhesion strength after water immersion:	$\geq 1.0 \text{ N/mm}^2$
Tensile adhesion strength after freeze-thaw cycles:	$\geq 1.0 \text{ N/mm}^2$
Release of dangerous substances:	NPD