



ARDEX X 32

Flexible bedding mortar

- With ARDURAPID® effect
- For outdoor and indoor use
- Discolouration- and efflorescence-free laying of natural stone slabs, natural stone tiles, concrete stone slabs and cotto slabs
- For laying stoneware and porcelain stoneware tiles
- For laying in thin, medium and thick bed applications
- Levelling wall and floor areas
- Walkable/available after 3 hours
- Mortar bed thicknesses from 3 to 30 mm
- Water-repellent and weather-resistant
- Quick-drying thanks to crystalline water binding



Area of application

Indoor and outdoor. Walls and floors.

Discolouration-free and efflorescence-free laying of natural stone tiles and natural stone slabs made of marble, Jura marble, granite, quartzite and similar materials, cotto slabs and concrete stone slabs.

Fixing and laying of tiles of stoneware and fine stoneware.

Levelling wall and floor areas before installation work.

Plating on heated screeds.

Laying on concrete and masonry substrates that are still shrinking (at least 3 months old).

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 with crystalline water binding.

Preparation of the surface

The substrate can be dry or damp, but must be solid, load-bearing, torsion-resistant and free of dust, contaminants or release agents.

For laying moisture-sensitive natural stone and for laying on floor screeds with an insulating layer or separating layer, the substrate must be dry.

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; on metal substrates, ARDEX P 82 Synthetic Resin Primer should be used.

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

The tiles should be laid with ARDEX X 32 Flexible bedding mortar after the primer, bonding agent or pre-coat has dried.

Processing

ARDEX X 32 Flexible bedding mortar can be used

- as a thin-bed mortar, min. 8 mm notched
- as a medium-bed mortar, from approx. 5 mm layer thickness
- as a thick-bed mortar, from 10 to 30 mm layer thickness

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



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pour clear water into a clean mixing container and add ARDEX X 32 powder while stirring vigorously until a smooth, lump-free mortar is obtained.

For laying and levelling work on floor areas, mix approx. 8–8.5 litres of water for laying and levelling work on floor surfaces, and approx. 7.5 litres of water for wall surfaces.

The mortar consistency should be adjusted 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. 60 minutes. After this time, 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.

Levelling Wall and Floor

ARDEX X 32 can be used to fill holes and depressions and to level uneven substrates in layers up to 30 mm thick. The levelling layers harden to a degree sufficient for tile and slab laying after approx.

approx. 2–3 hours, allowing tile and slab laying to begin.

For large-area levelling work, we recommend using ARDEX AM 100 levelling mortar.

Self-levelling levelling compounds such as ARDEX K 80 Thin Screed are also suitable for floor areas in interior areas.

Movement Floor

Apply mortar to the substrate and comb with a notched trowel or medium-bed trowel depending on the laying method. In the thick-bed method, the mortar is applied as usual with a trowel. Ensure that the tiles are completely embedded.

The mortar should only be applied to areas that are large enough to allow the tiles and slabs to be easily inserted or tapped into the damp mortar bed.

If the mortar is applied immediately after mixing, the setting time is approx. 20 minutes and the correction time approx. 20–30 minutes.

Tiles and slab coverings can be walked on and grouted approx. 3 hours after laying.

Attach Wall

For thin-bed or middle-bed application, apply mortar to the wall surfaces and lay the tiles or slabs within the setting time. For thick-bed application, apply mortar to the back of the slabs and lay and tap them into place as in the normal thick-bed procedure. Depending on the thickness of the mortar application and the weight of the covering, wedges may need to be placed underneath.

Please note

ARDEX waterproofing compounds should be used for waterproofing measures prior to installation.

Use ARDEX N 23 W MICROTEC tile and natural stone adhesive, white, for applying and laying of natural stone slabs with a transparent character in interior areas.

ARDEX G 10 PREMIUM Flex Grout is suitable for grouting marble slabs and other moisture-sensitive natural stone slabs in interior areas.

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

In case of doubt and with particularly moisture-sensitive natural stones, carry out test installations.

ARDEX X 32 Flexible bedding mortar should be applied at temperatures above +5°C.

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 - 8.5 l Water 1 Part water 7.5 l Water 1 Part water	Component B 25 kg powder 2.75 RT powder 25 kg powder 3 RT powder	Consistency For laying on floors For laying on floors For attaching to walls For attaching to walls
Material requirement approx.	Material requirements 3.30 kg/m ² 1.20 kg/m ²	Toothings (mm) 8 x 8 x 8	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.	60 Minute(s)		
Insertion time (EN 1346) approx.	20 Minutes		



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Correction time approx.	20 - 30 Minutes
Can be walked on after approx.	3 Hours, grouting possible thereafter
Application Ambient conditions	+20°C

Mechanical properties

Adhesive tensile strength approx.	Ambient condition	Bond strength
	Dry	1.0 - 2.0 N/mm ²
	Wet	1.0 - 1.5 N/mm ²
	Warm	1.0 - 2.0 N/mm ²
	Frost-thaw cycle	1.0 - 1.5 N/mm ²
Bending tensile strength approx.	Time	Bending tensile strength approx.
	After 1 day	2.5 N/mm ²
	After 7 days	4.0 N/mm ²
	After 28 days	6.0 N/mm ²
Compressive strength approx.	Time	Compressive strength of approx.
	After 1 day	10 N/mm ²
	After 7 days	15 N/mm ²
	After 28 days	20 N/mm ²

Product details

Suitable for underfloor heating	Yes
Tested according to DIN EN 12004	C2 FTE S1
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
Packaging	Sacks containing 25 kg net
Storage	Can be stored in dry rooms for approx. 12 months in the original sealed container.

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54201	
EN 12004:2007+A1:2012	
ARDEX X 32 Improved fast setting deformable cementitious adhesive with reduced slip and extended open time for internal and external tiling EN 12004:C2FTE-S1	
Fire class:	E
Initial tensile adhesion strength:	$\geq 1.0 \text{ N/mm}^2$
Early tensile adhesion strength after 6 hours:	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after water immersion:	$\geq 1.0 \text{ N/mm}^2$
Tensile adhesion strength after heat ageing:	$\geq 1.0 \text{ N/mm}^2$
Tensile adhesion strength after freeze-thaw cycles:	$\geq 1.0 \text{ N/mm}^2$
Release of dangerous substances:	See material safety data sheet