



ARDEX AR 300

Multimortar

- Cement base
- Low tension
- Waterproof and weatherproof
- Easy processing
- Can be felted and smoothed



Area of application

Indoor and outdoor. Walls and floors.

Bonding mineral building boards, plasterboards, rigid foam insulation boards with mortar lamination, etc.

Levelling, filling and plastering wall and floor areas made of

- Concrete
- Masonry (aerated concrete only indoors, thin layer)
- Plaster of mortar groups P II and III
- Cement screed

in layer thicknesses of 2–30 mm for receiving tile and slab coverings.

Filling holes, recesses, slots and breakouts. Bonding flat blocks made of aerated concrete and sand-lime brick in areas not subject to structural loads, such as bathtub and washbasin walls, shower partitions, etc.

Bonding of earthenware and stoneware tiles with fast initial adhesion and walkability.

Type

Grey powder made from special cements, easily dispersible plastics and selected fillers. The powder is mixed with water to form a smooth, stable mortar that can be easily applied in thick and thin layers and hardens after approx. 60 minutes. Dry layers are permeable to diffusion.

Preparation of the surface

The substrate can be dry or damp, but must be non-slip, solid, free of release agents and load-bearing. Insufficiently solid surface areas, weakly bonded plaster, old wallpaper, paint coatings, etc. must be removed. Smooth concrete surfaces (sinter skin) must be roughened with sand or shot blasting if necessary.

Processing

Pour clear water into a clean mixing container and add enough powder while stirring vigorously to produce a smooth, lump-free and stable mortar.

Approximately 6.0 – 6.5 l of water is required to mix 25 kg of ARDEX AR 300 powder. The amount of water added can be slightly reduced or increased depending on the area of application, layer thickness, etc. Only mix as much material as can be used within approx. 45 minutes.

After a setting time of 1 minute and further stirring, the mortar can be used for approx. 45 minutes at +20°C and can be applied in a single operation up to a layer thickness of 30 mm. ARDEX AR 300 hardens by hydration and drying after

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

26.02.2026

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approx. 60 minutes to such an extent that reworking, e.g. felting, rubbing and smoothing, is possible. After approx. 2 hours, the hardening process is so far advanced that the tiles can be laid.

To improve the adhesion of ARDEX AR 300, first apply a thin layer of mortar to the substrate and wipe it off sharply with a smoothing trowel.

Immediately afterwards, apply the mortar in the required layer thickness. The mortar can be applied with a smoothing trowel or thrown on and wiped with a straight edge.

To fix building boards, the mortar can be applied to the entire back of the boards (on even substrates) or in dots or strips (on uneven substrates). The building boards are then fixed within the adhesion time of 10–15 minutes and tapped into place (follow the building board manufacturer's recommendations).

When bonding aerated concrete blocks and sand-lime bricks, apply ARDEX AR 300 mortar to the butt and bed joints using a suitable notched trowel or block trowel to achieve a bond layer approximately 2 mm thick. Place the blocks directly into the adhesive bed and align them.

The rapid hardening of ARDEX AR 300 allows further work to be carried out quickly, such as smoothing the surface or laying tiles.

For fixing and laying tiles indoors, apply ARDEX AR 300 mortar to the substrate and comb with a notched trowel to ensure that the tiles are bonded over the entire surface. The substrate, type, size and back of the tiles determine the choice of notched trowel.

The laying areas must only be large enough to allow the tiles to be easily laid into the paste-like, moist mortar bed within the 10–15 minute working time. The correction time is approx. 5 minutes for absorbent substrates and earthenware tiles and approx. 15 minutes for stoneware tiles.

On low-traffic areas, e.g. bathrooms and kitchens in residential areas, ARDEX AR 300 can also be used to lay porcelain tiles up to a size of 40 x 40 cm.

Higher temperatures shorten, lower temperatures extend the processing and load times.

ARDEX AR 300 multi-purpose mortar must be processed at temperatures above +5°C.

In case of doubt, carry out a test application.

Please note

Substrates with different moisture contents can cause colour differences with cementitious joint mortars.

The levelling layers must be protected against premature drying.

Tile coverings can be applied after approx. 2 hours. For laying moisture-sensitive natural stone coverings, wait until the levelling layer has dried and use a suitable adhesive mortar.

Waterproofing with ARDEX waterproofing compounds can be carried out after the surface has dried.

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 AR 300 can be used in swimming pools, but not in medicinal, thermal or saltwater pools.

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 6 - 6.5 l water 1 Part water	Component B 25 kg powder 3 RT powder	
Material requirement approx.	Material requirements 1.20 kg/m ² 2.50 kg/m ² 3.40 kg/m ²	Toothing (mm) 6 x 6 x 6 8 x 8 x 8	Condition Per mm order thickness
Bulk density approx.	1,30 kg/l		
Fresh weight approx.	1,50 kg/l		
Application properties			
Processing time approx.	45 - 60 Minute(s)		
Insertion time (EN 1346) approx.	20 Minutes		
Correction time approx.	5 - 15 Minutes		
Can be walked on after approx.	2 Hour(s)		
Attachment and laying work after approx.	2 Hour(s)		

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Application Ambient conditions	+20°C
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Mechanical properties

Bending tensile strength approx.	Time	Bending tensile strength approx.
	After 1 day	1 N/mm ²
	After 7 days	2 N/mm ²
	After 28 days	4 N/mm ²
Compressive strength approx.	Time	Compressive strength of approx.
	After 1 day	3 N/mm ²
	After 7 days	12 N/mm ²
	After 28 days	15 N/mm ²

Product details

Suitable for underfloor heating	Yes
PH value approx.	12
Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
EMICODE	EC 1 = very low emissions
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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ARDEX Baustoff GmbH Hürmer Straße 40 A-3382 Loosdorf Austria	
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13152	
EN 12004:2007+A1:2012	
13152 ARDEX AR 300, EN 12004:C1FT Fast setting cementitious adhesive with reduced slip for internal and external tiling	
Reaction to fire:	E
Bond strength	
Initial tensile adhesion strength:	$\geq 0.5 \text{ N/mm}^2$
Early tensile adhesion strength after 6 hours:	$\geq 0.5 \text{ N/mm}^2$
Durability of bond strength	
Tensile adhesion strength after heat ageing:	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after water immersion:	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after freeze- thaw cycles:	$\geq 0.5 \text{ N/mm}^2$
Release of dangerous substances:	NPD