



ARDEX AR 300

Multimortar

- Bedding of mineral construction panels, gypsum plasterboards, hard foam insulating panels with mortar lamination and similar.
- Leveling, smoothing and rendering of walls and floors in layer thicknesses of 2 – 30 mm for supporting tile and slab surfaces
- Filling of holes, recesses, slits and break-outs
- Bonding of flat blocks made from aerated concrete and sandlime bricks in statically non-relevant areas.
- Water and weather-resistant • Low tension • Easy working
- Can be felted and smoothed



Scope of application:

Indoors and outdoors. Walls and floors.

Bedding of mineral construction panels, gypsum plasterboards, hard foam insulating panels with mortar lamination and similar.

Leveling, smoothing and rendering of wall and floor surfaces made from

- concrete
- masonry (aerated concrete indoors only, in thin layers)
- plaster of mortar groups P II and III
- cement screed

in layer thicknesses of 2 – 30 mm for supporting tile and slab surfaces.


Filling of holes, recesses, slits and break-outs. Bonding of flat blocks made from aerated concrete and sandlime bricks in statically non-relevant areas, such as separating bath tub and wash basin brickwork, shower partitions etc.

Bonding of tiles made from earthenware and stoneware with fast initial adhesion and readiness for foot traffic.

Type:

Gray powder made from special cements, well dispersing plastics and selected filler materials. The powder is stirred with water to form a smooth, firm mortar, that can easily be applied in thick and thin layers and hardens after approx. 60 minutes. Dry layers are vapor permeable.



 0370	
ARDEX Yapı Malzemeleri Ltd. Şti. İstanbul Deri Organize Sanayi Bölgesi Desen Sok. No:14/A C1 Özel Parsel P.K. 34956 Tuzla / İstanbul / Türkiye 12	
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

ARDEX AR 300

Multimortar

Surface preparation:

The subsurface can be dry or damp, but must have good grip and be firm, free of release agents and able to support the load.

Insufficiently firm top zones, weak bonded plaster, old wallpaper, coats of paint etc. must be removed.

Smooth concrete surfaces (sinter skin) are to be roughened by sandblasting or shotblasting if necessary

Application

Pour clear water into a clean mixing vessel and while stirring vigorously add enough powder, so that a smooth, lump-free and firm mortar is formed.

Approx. 6.0 l water are required for mixing 25 kg ARDEX AR 300 powder. The addition of water can be slightly reduced or increased, depending on the scope of application, layer thickness etc. Only as much material may be mixed, as can be worked within approx. 45 minutes.

Following a maturation time of 3 minutes and repeated stirring through the mortar can be worked at +20 °C for approx. 45 minutes and a layer thickness of up to 30 mm can be applied in one operation. ARDEX AR 300 hardens through hydration and drying after approx. 60 minutes so far, that reworking, such as e.g. felting, rubbing and repeat smoothing is possible. The hardening has advanced so far after approx. 2 hours, that tiles can be laid.

To improve the adhesion of ARDEX AR 300, first the mortar is to be applied to the subsurface in a thin layer and pulled off sharply with a smoothing trowel.

Immediately after that the mortar is applied in the necessary layer thickness. The mortar can be drawn up with a smoothing trowel or thrown on and drawn down with the straightedge.

For bedding construction panels the mortar can be applied to the entire back surface of the panels (with even subsurface) or in spots or stripes (with uneven subsurface). The construction panels are then bedded in within the bonding open time of 10 – 15 minutes and tapped into place (observe recommendations of the construction panel manufacturer).

When bonding flat blocks made from aerated concrete and sand-lime bricks, the ARDEX AR 300 mortar is applied with a suitable toothed applicator or a flat block trowel to the butt- and horizontal joints, so that an adhesive layer of about 2 mm thickness is achieved.

Immediately insert and align the flat blocks in the adhesive bed. The rapid hardening of ARDEX AR 300 enables fast further processing, such as surface smoothing or laying tiles.

For setting and laying tiles the ARDEX AR 300 mortar is applied to the subsurface and combed off with a toothed trowel, so that full-surface bonding of the tiles is ensured. Subsurface, type, size and backing of the tiles determines the selection of the toothed trowel.

The installation areas must only be so large that the tiles can be bedded in the pasty, wet bed of mortar within the working time of 10 – 15 minutes. The correction time for absorbent subsurface and earthenware tiles is approx. 5 minutes, for stoneware tiles approx. 15 minutes.

With ARDEX AR 300 porcelain tiles up to format 40 x 40 cm can also be laid on low stressed surfaces, e.g. bathrooms and kitchen of the living area.

Higher temperatures shorten the times for working and loading, lower temperatures extend them. ARDEX AR 300 above +5 °C.

In cases of doubt perform trials.

To be observed:

Subsurfaces with different moisture contents can cause differences in color with cementitious jointing mortars. The leveling layers are to be protected from drying out too fast.

Tile surfaces can be applied after approx. 2 hours. For laying moisture-sensitive natural stone surfaces the drying of the leveling layer is to be waited and a suitable adhesive mortar used.

Seals with ARDEX sealing compounds can be carried out after the top surface is dry. The products of the ARDEX natural stone system are suitable for laying marble and other natural stones free of discoloration indoors.

ARDEX AR 300 can be used in swimming pools, but not in health spas, thermal baths or brine baths.

Technical Data According To ARDEX Quality Standards

Mixing ratio:	6,0 liters of water per 25kg bag						
Bulk density:	Approx. 1,5 kg/l						
Weight of fresh mortar	Approx. 1,5 kg/l						
Material Requirement	1,2 kg/mm for repair&filling As adhesive, depending on the substrate and the trowel size (approx.)						
	<table><thead><tr><th>Trowel Size</th><th>Consumption</th></tr></thead><tbody><tr><td>6x6x6mm</td><td>2,5 kg toz/m²</td></tr><tr><td>8x8x8mm</td><td>3,4 kg toz/m²</td></tr></tbody></table>	Trowel Size	Consumption	6x6x6mm	2,5 kg toz/m ²	8x8x8mm	3,4 kg toz/m ²
Trowel Size	Consumption						
6x6x6mm	2,5 kg toz/m ²						
8x8x8mm	3,4 kg toz/m ²						
Working time / Pot life*:	Approx. 45 - 60 minutes						
Open time*:	Approx. 20 minutes						
Fixing time*:	Approx. 5 - 15 minutes						
Walkability / Grouting*:	Gets walkable and groutable after approx. 2 hours.						
Suitable for underfloor heating:	Yes						
pH Value:	Fresh mortar approx. 12						
EMICODE:	EC 1 - Very low emission						
GHS/CLP classification:	GHS05 "corrosive" Signal word: Hazard						
GGVSEV/ADR classification:	None						
Packaging	25 kg paper bag						
Raf ömrü ve depolama:	ARDEX AR 300 must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excess moisture and draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging						

Recommended mixing paddle:

