



# ARDEX FB 9 L

## Pourable ShearFlex® Mortar

- Portland cement-based thin set mortar in accordance with EN 12004:C2E-S1
- Highly flexible
- Water and frost resistant
- Pourable consistency makes it specially suited to set large format tiles
- Use for setting ceramic, porcelain, and quarry tile, glass and porcelain mosaics, and moisture-insensitive natural stone tile
- Suitable for high traffic areas
- High yield
- Use for interior and exterior floors



### Usage

For the setting of: porcelain, ceramic and quarry tile; glass and porcelain mosaics; concrete and natural stone tiles and slabs on interior and exterior installations (with the exception of moisture-sensitive stone); setting tile on cementitious floors with in-floor heating systems, tiling in swimming pools, and high traffic areas.

### Description

Portland cement-based modified mortar with powdered polymers for high bond strength and flexibility. When mixed with water, the result is a pourable, creamy smooth thinset mortar that hardens by hydration and drying, is highly flexible, and water and weather resistant. ARDEX FB 9 L bonds to all suitable concrete, masonry, and cementitious substrates, and Type 1 exterior grade plywood on interior substrates only.

### Substrate Preparation

ARDEX FB 9 L adheres to both dry and damp substrates that are structurally sound, solid and free from any contaminant that can act as a bond breaker. Floor surfaces must have minimal variation in the plane or slope. Expansion joints must be provided over existing moving joints and cracks, and where substrate materials change composition or direction.



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### 54205 EN 12004:2007+A1

### ARDEX FB 9 L

Cementitious Tile Adhesive  
EN 12004:C2E-S1

Initial tensile adhesion strength	: ≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	: ≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after heat aging	: ≥ 1,0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze-thaw cycles	: ≥ 1,0 N/mm <sup>2</sup>
Open time (after not less than 30 minutes)	: ≥ 0,5 N/mm <sup>2</sup>
Early tensile adhesion strength (After not less than 6 hours)	: NPĐ
Slip	: NPĐ
Traverse deformation	: ≥ 2,5 mm & < 5 mm
Fire Class	: E

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## Pourable ShearFlex® Mortar

Highly absorbent concrete substrates must be primed with ARDEX P 51 PRIMER diluted 1:3 with water (interior applications in dry areas only).

Existing tiles, metal, glass, and other non-porous surfaces must be primed with ARDEX P 82 ULTRA PRIME (interior applications in dry areas only). For exterior applications or in wet areas, non-porous substrates must be coated with specific ARDEX waterproof coatings.

### Mixing And Application

The water to powder ratio for ARDEX FB 9 L can be adjusted based upon the type of tile being installed and jobsite conditions. For each 25kg bag of ARDEX FB 9 L, use between 6,5 and 7,0 liters of water. Put clean water in the mixing container first, and then add the ARDEX FB 9 L. For best results, mix with a Collomix KR Series Mixing Paddle and heavy-duty drill. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency. The pot life of ARDEX FB 9 L is approximately 2 hours at 20°C. If surface skinning occurs within this time, remix before using.

After mixing, apply the mortar to the substrate with the flat side of a trowel to obtain a solid mechanical bond. Apply to an area no greater than that which can be covered with tile while the mortar remains plastic (approx. 30 minutes open time, depending on substrate and job site conditions). Comb the mortar with a notched trowel of sufficient depth to ensure that the tiles are covered uniformly over their entire surface. The type and size of the tiles will dictate the size of the notched trowel to be used. The position of the tiles may be corrected for approximately 30 minutes after their installation. Grouts can be applied after 6 hours.

Rough or uneven substrates may first be treated with a pre-smoothing layer of ARDEX FB 9 L up to 10cm thick. Installation of tiles may begin after 6 hours.

### Notes

The pot life of ARDEX FB 9 L is 2 hours at 20°C. If surface skinning occurs within this time, remix the mortar before using. Tile must not be applied to skinned-over mortar.

When setting paper-faced glass mosaic or porcelain mosaic tiles, apply sufficient mortar such that when the mosaic is pressed into place, the mortar rises up through the joints. Any subsequent grouting that is necessary must also be done with ARDEX FB 9 L.

In cases requiring waterproofing, refer to the ARDEX Technical Brochures for ARDEX waterproofing compounds.

For setting and grouting tiles in high stress areas, hot tubs, and water-holding tanks, use ARDEX WA or ARDEX RG 12 Epoxy Grouts.

As always, Ardex recommends the installation of test areas to confirm the suitability of the product for the intended use.

ARDEX FB 9 L must be worked at temperatures over 5°C. Observe the basic rules of tile work.

For setting moisture-sensitive stones on interior applications, use ARDEX Marble & Granite Adhesive.

Never mix with cement or additives other than ARDEX approved products. Observe the basic rules of concrete work.

### Precautions

ARDEX FB 9 L contains Portland cement. Avoid eye and skin contact. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on product label. For complete safety information, please refer to the Material Safety Data Sheet or visit our website at [www.ardex.com.tr](http://www.ardex.com.tr)

Physiologically and ecologically friendly when set.

### Technical Data According To ARDEX Quality Standards

Mixing Ratio	6,5 - 7,0 liters of water per 25kg bag	
Density of dry powder	Approx. 1,30 kg/l	
Weight of fresh mortar	Approx. 1,65 kg/l	
Material Requirement	Depending on the substrate and the trowel size; (approx.)	
	Trowel Size	Consumption
	6x6x6mm	2,7 kg/m <sup>2</sup>
	8x8x8mm	3,5 kg/m <sup>2</sup>
Pot Life*:	Approx. 3 hours	
Open Time*:	Approx. 30 minutes	
Fixing Time*:	Approx. 30 minutes	
Walkability / Grouting*:	Gets walkable and groutable after approx. 6 hours.	

\*All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.

Tensile Strength:	According to EN 12004 dry, 1.0 - 2.0 N/mm <sup>2</sup> wet, 1.0 - 2.0 N/mm <sup>2</sup> freeze-thaw, 1.0 - 2.0 N/mm <sup>2</sup>
Compressive Strength	After 1 day approx. 5,0 N/mm <sup>2</sup> After 3 days approx. 10,0 N/mm <sup>2</sup> After 28 days approx. 20,0 N/mm <sup>2</sup>
Flexural Strength	After 1 day approx. 2,0 N/mm <sup>2</sup> After 3 days approx. 2,5 N/mm <sup>2</sup> After 28 days approx. 5,0 N/mm <sup>2</sup>
Suitable for underfloor heating:	Yes
EMICODE:	EC 1 Plus - Very Low Emission
GHS/CLP Classification:	GHS 05, Corrosive
GGVSEV/ADR Classification:	None
Packaging	25 kg paper bag
Storage and shelf life	Can be stored up to 12 months in its original unopened package, in a cool dry area. Do not expose bags to direct sunlight.

### Recommended mixing paddle



Collomix KR Series