



ARDEX E670

Slurry Bonding Agent for Mortar and Screed

Improve water resistance of mortar / screed / render

Improve bond strength of mortar / screed / render

Increase durability & toughness

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ARDEX E670

Slurry Bonding Agent for Mortar and Concrete

DESCRIPTION

ARDEX E670 is a bonding agent designed to improve shear and tensile strength of sand/cement screeds, renders and cement based tile adhesive.

When mixed with normal tile adhesive, it increases water resistance and also improves adhesion to low absorption tiles e.g. glass mosaics. ARDEX E670 can be used for externally and internally.

Thus when incorporated as an admixture to cement mortar mixes, it forms polymer-modified systems, which exhibit exceptionally high water resistance, wear resistance and durability. These modified mixes are non-toxic and can be used with potable water

SUBSTRATE PREPARATION

In general, the surface being adhered to must be clean, dry, free of dust, dirt, oil, grease and contaminating materials. New brickwork, walls should be left to cure at least 7 days prior to rendering.

MIXING

1. Slurry coat:

Mix 2 parts cement to 1 part of undiluted ARDEX E670 by weight (or 3:2, cement to ARDEX E670 by volume)

2. Render or screed:

- Prepare a 1: 3 parts of ARDEX E670 to water dilution (by volume)
- For renders mix 27 litres of diluted ARDEX E670 with 40kg of cement to 120kg of clean sand
- For screeds mix 21 litres of diluted ARDEX E670 with 40kg of cement to 120kg of clean sand

3. Standard cement tile adhesive:

- Replace water with ARDEX E670 according to instructions on adhesive packing.

Below is the dosage in ratio guideline:

	Dilution	
	ARDEX E670	Water
Slurry mix	1	-
Render mix	1	3
Screeds mix	1	3

	Diluted ARDEX E670	Cement	Clean sand
Slurry mix	-	1 or 2 or 0.67	-
Render mix	1	1.48	4.44
Screeds mix	1	1.9	5.7

COVERAGE

20L of ARDEX E670 cover approximately :

- Slurry coat: 100m²
- Screed: 9m² at bed thickness of 15mm, 3m² as a self-supporting screed at 40mm
- Render coat: 10m² at bed thickness of 10mm
- As for mixing with normal tile adhesive, the recommended mixing ratio shall be 5.5 – 6.5 litres of ARDEX E670 to 25kg bag of normal tile adhesive.

APPLICATION

RENDER COAT

- First apply a slurry coat using a roller, brush or a flat trowel, to a maximum thickness of 1.5 – 2 mm that may required 2 applications. While the slurry coat is still wet, apply render over it. Ensure firm pressure on the trowel to work with the render into good contact with the surface not more than 10mm thickness in one application.

SCREED

- First apply a slurry coat using roller, brush or a flat trowel, to a maximum thickness of 2mm while the slurry coat is still wet, apply the screed mix. Using the straight edge, trowel or timber batten to level the screed.

Recommended minimum thickness of screed 15mm. Screed should be left with a wood float finish to create a key for tiling / waterproofing. For a thickness greater than 40mm, a reinforcing mesh is required.

PACKAGING

ARDEX E670 is packed in 20 litres pail or 200 litres drum

STORAGE AND SHELF LIFE

ARDEX E670 has a shelf life of 12 months if kept in a dry store between 10°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

LIMITATIONS

- If exterior conditions, it is essential to provide protection from all extremes of climate during the whole fixing and grouting process.
- Protect ARDEX E670 liquid from frost – do not allow freezing

TOOL CLEANING

All tools should be cleaned with water immediately after use. Remove excess mortar from the surface of the tools with a damp cloth.

SAFETY PRECAUTIONS

ARDEX E670 is a non-toxic, However to avoid skin contact, protective clothing should be worn. In case of eye contact, rinse with plenty of water and contact doctor. If swallowed, immediately contact doctor. For further material safety data, consult the latest material safety data sheet.

TECHNICAL DATA

Colour	White
Form	Viscous Liquid
Specific Density	1.01 kg/L
pH	9 - 11
Brookfield Viscosity	3.200 – 4,200cps

ARDEX E670 / cement – slurry coat (10L ARDEX E670 / 20kg cement)

Compressive Strength	25N/mm ²
28 days dry:	
Flexural Strength	7N/mm ²
7 days dry:	

ARDEX E670 / cement - render (27L ARDEX E670 / 40kg cement / 120 sand)

Compressive Strength	10N/mm ²
28 days dry:	
Flexural Strength	5N/mm ²
7 days dry:	

ARDEX E670 / cement & screed (21L ARDEX E670 / 40kg cement / 120 kg sand)

Compressive Strength	15N/mm ²
28 days dry:	
Flexural Strength	5.3N/mm ²

DISCLAIMER:

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable standard, our instructions are recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice building regulations or industry guidelines may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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Nov 2014