ARDEX E 700

High Effective Slurry Additive

Advantages

- **Polymer concentrated emulsion, dilutable**
- **Significantly increases the strength of mortars**
- **Wide range of applications, Easy to apply**
- **Non-toxic, non-flammable formulation**

Description

ARDEX E 700 is a concentrated liquid latex additive for mixing. It can be used as an additive for cement mortars for levelling walls and floors: when added to ordinary cement mortars, it can significantly increase the mortar strength. It can also be used as a bonding agent: for keying (roughening) smooth substrates or old tile surfaces prior to re-tiling.

Areas of Application

Interior or exterior; residential or commercial; walls or floors. Suitable substrates include concrete walls/floors, cement-sand levelling layers, and brickwork surfaces, etc.

Substrate Preparation

Substrate surfaces must be clean, sound, and free of dust, dirt, and grease.

Mixing

The mixing ratio of ARDEX E 700 emulsion depends on the intended use and the associated product.
When used as a polymer-modified interface slurry (wet slurry priming), mix by weight at a ratio of Product : cement : dry sand = 1 : 1 : 1 to form a wet slurry.
When used for wall/floor cement-sand levelling layers, first dilute ARDEX E 700 with water at a ratio of 1 : 3.
For wall levelling, mix 27 L of diluted ARDEX E 700 with 40 kg Portland cement and 120 kg clean river sand.
For floor levelling, mix 21 L of diluted ARDEX E 700 with 40 kg Portland cement and 120 kg clean river sand.
For keying smooth substrates and old tile surfaces prior to re-tiling: mix by weight at Product: cement : dry sand = 1 : 1 : 1.
After mixing into a thin slurry, use a brush or roller to coat the substrate. Once dry, proceed with subsequent bonding operations. On firm and dry substrates, the consumption is about 0.4 kg/m²/mm; the actual amount depends on the substrate condition.

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Application

Wall levelling layer:
First, brush or trowel on a layer of interface wet slurry with a thickness not exceeding 2 mm; then, while the interface slurry is still wet, proceed wet-on-wet with subsequent wall rendering and levelling. Use a wooden float to trowel the ARDEX E 700 modified levelling mortar over the surface. During troweling, ensure the mortar is well compacted and properly bonded to the surface.
Floor levelling layer:
First, brush or trowel on a layer of interface wet slurry with a thickness not exceeding 2 mm; then, while the interface slurry is still wet, proceed wet-on-wet with subsequent floor levelling. Use a finishing trowel or straightedge to level the cement mortar. After straightedge levelling, use a wooden float to close the surface, maintaining a certain roughness to facilitate the bonding of subsequent waterproofing membranes/tiles. For thicknesses exceeding 40 mm, reinforcement with galvanised wire mesh is required. First lay a levelling mortar layer, then place the galvanised wire mesh, and subsequently place another levelling mortar layer.
Do not lay the galvanised wire mesh directly on the substrate.
Clean all tools with water immediately after use.

Consumption

Example for a 20 L pail:
20 L of ARDEX E 700 used as:
Interface wet slurry covers approx. 100 m²;
15 mm-thick floor levelling mortar lays approx. 20 m²;
40 mm-thick self-supporting floor levelling cement-sand screed lays approx. 9 m²;
10 mm-thick wall levelling cement-sand render covers approx. 30 m².
Actual consumption varies with substrate condition and application method.

Packaging

5L per pail, 20L per pail

Storage & Shelf Life

Shelf life 12 months when unopened and stored in a cool, dry place.

Notes

When used with underfloor heating systems, ARDEX E 700 must not be diluted. For outdoor work, to ensure the levelling layer is strong and reliable, avoid mixing and application under extreme weather conditions.

Technical Data

Color	White liquid
Density	Approx.1.01g/ml
PH	9-11
Underfloor heating	Suitable
Standard	JC/T907-2018

Mechanical Properties & Workability

Measured at 23°C and 50% RH
Interface slurry
Mix ratio
10 L undiluted ARDEX E 700: 20 kg cement

28-day compressive strength	Approx. 25MPa
28-day flexural strength	Approx. 5MPa

Wall levelling
Mix ratio
27 L diluted ARDEX E 700: 40 kg cement: 120 kg sand

28-day compressive strength	Approx. 10MPa
28-day flexural strength	Approx. 5MPa

Floor levelling
Mix ratio
21 L diluted ARDEX E 700: 40 kg cement: 120 kg sand

28-day compressive strength	Approx. 35MPa
28-day flexural strength	Approx. 5-7MPa

Pot life: approx. 1 hour
Note: These data are based on tests with Portland cement and washed dry sand.

Health & Safety

This product is non-toxic but avoid contact with skin and eyes. In case of eye contact, rinse immediately with plenty of clean water and seek medical attention. Wear appropriate gloves and eye protection during use. Keep out of reach of children. Avoid dust generation during mixing; if swallowed without vomiting, rinse mouth with water, then drink as much water as possible and seek medical attention. For more information on material safety, please refer to the latest Material Safety Data Sheet (MSDS).