



# ARDEX Marble & Granite Adhesive

## Rapid curing natural stone adhesive, white

- Ideal for use with moisture-sensitive stone, virtually eliminates staining, warping and discoloration
- Fast setting – walk on and grout in 3 hours
- Ideal for use with heavy and large format tiles
- Easy to mix and apply; mixes using just water



### DESCRIPTION

ARDEX Marble & Granite Adhesive is classified as C2 FE "improved fast setting cementitious adhesive with extended open time" in accordance with TS EN 12004. ARDEX Marble & Granite Adhesive is a special rapid hardening and drying, cement-based adhesive for fixing natural stone floor and wall tiles including moisture sensitive natural stone tiles and uncalibrated natural stone floor tiles. It may also be used for concrete slabs and ceramic tiles including porcelain tiles in internal and external situations. Tiles fixed with ARDEX Marble & Granite Adhesive can be grouted and subjected to foot traffic 3 hours after fixing at normal temperatures (20°C), even at maximum thickness.

It is particularly suitable for use in situations where the adhesive bed has to dry quickly to reduce the risk of moisture staining of the stone. ARDEX Marble & Granite Adhesive is a white powder based on special cements, high quality synthetic resins and fillers, which is mixed with water to produce an easily applied mortar with a working time of approximately 30 minutes.

The mortar adheres strongly to most building materials such as concrete, cement/sand render and screeds, brickwork, blockwork, etc. In some cases surface preparation, such as priming may be required prior to fixing. For fixing on wooden or asphalt floors consult ARDEX Technical Department.

### SURFACE PREPARATION

The surface being adhered to must be clean, firm, free of dust, dirt, oil, grease and other barrier materials as well as being strong enough to support the weight of the tiles being fixed.

Ensure that the drying time for the background has elapsed prior to fixing the tiles. ARDEX Marble & Granite Adhesive can be applied to dry or moist surfaces, e.g. cement/sand, concrete etc., but moisture sensitive materials must be dry and remain dry after fixing. Screeds and wall plasters based on calcium sulfate, e.g. anhydrite/hemihydrate



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### 4457 EN 12004:2007+A1

### ARDEX Marble & Granite Adhesive

Cementitious Tile Adhesive  
EN 12004:C2 FE

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

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# ARDEX CT 50

## Ceramic-Porcelain Tile Adhesive

screeds, should be dry and the surface suitably prepared before priming with ARDEX P 51 primer, diluted 1 part to 3 parts water.

**NOTE:** The surface of calcium sulfate based screeds should be prepared in accordance with the screed manufacturer's instructions. When fixing to very smooth, dense and impervious surfaces, such as existing ceramic floor tiles (glazed or unglazed), terrazzo etc., the surface should be initially primed with ARDEX P 82 primer, for internal dry areas.

### ARDEX P 4

Solvent free, ready mixed rapid drying primer used prior to the application of ceramic tile adhesives and levelling compounds. ARDEX P 4 Primer produces a textured surface and dries in as little as one hour, it is particularly useful for tile on tile applications.

### MIXING

Add the ARDEX Marble & Granite Adhesive powder to water in a clean container, whilst stirring and mixing thoroughly to give a slump-free, easily worked mortar.

The use of an ARDEX mixing paddle with a 10mm chuck, variable speed electric drill, makes light work of mixing.

The mixing proportions by volume are:- Approximately 4<sup>1</sup>/<sub>4</sub> – 6<sup>1</sup>/<sub>4</sub> parts of ARDEX Marble & Granite Adhesive powder: 1 part water. A 25kg bag of ARDEX Marble & Granite Adhesive requires approximately 4,0 - 6,0 litres of water.

The consistency of the adhesive can be adjusted to suit site conditions and the materials being fixed, but must always be slump-free. The pot life of the mixed mortar is approximately 1 hour at normal temperatures (20°C). The mortar should be applied at temperatures above 5°C.

### APPLICATION

For fixing natural stone tiles, use a suitably sized notched trowel to give a ribbed mortar bed on the substrate, into which the tiles are firmly bedded whilst the mortar is moist and soft. Floor tiles, slabs with keyed back profiles and translucent stones need to be buttered to ensure solid bedding.

The area covered with ARDEX Marble & Granite Adhesive mortar should be limited so that tiles can be fixed within the open time. If the mortar is applied immediately after mixing, the open time is approximately 30 minutes but this time will be greatly reduced if the mixed mortar is left longer before applying. ARDEX Marble & Granite Adhesive is classified as having an extended open time of no less than 30 minutes when measured in accordance with TS EN 12004.

For optimum performance under typical site conditions tiles should be fixed within 20 minutes. On particularly rough or uneven floor or wall surfaces it is advisable to pre-level the surface with ARDEX Marble & Granite Adhesive and once this initial layer has hardened, (approximately 3 hours after application) proceed with the normal fixing technique.

Holes and depressions can be pre-filled and substrates levelled providing that the substrate is sufficiently strong and the total thickness of adhesive and pre-levelling mortar does not exceed 30mm.

### GROUTING

Natural stone tiles and slabs fixed in ARDEX Marble & Granite Adhesive may be grouted as soon as the tile bed is sufficiently firm, usually 3 hours after fixing at 20°C.

ARDEX MG Rapid Drying Marble and Natural Stone Grout should be used to grout marble and other natural stone slabs that are sensitive to moisture for internal areas. For external areas use ARDEX FG FLEX, ARDEX JK or ARDEX RG 12 1-6mm

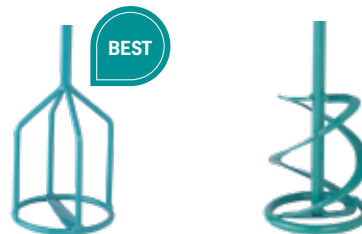
### Technical Data According To ARDEX Quality Standards

|                           |   |
|---------------------------|---|
| Mixing ratio:             | 4 - 6 liters of water per 25kg bag                        |
| Bulk density:             | Approx. 1,4 kg/l  |
| Weight of fresh mortar    | Approx. 1,4 kg/l  |
| Material Requirement      | Depending on the substrate and the trowel size; (approx.) |
|                           | Trowel Size      Consumption                              |
|                           | 3x3x3mm      1,7 kg toz/m <sup>2</sup>                    |
|                           | 6x6x6mm      2,4 kg toz/m <sup>2</sup>                    |
|                           | 8x8x8mm      3,5 kg toz/m <sup>2</sup>                    |
| Working time / Pot life*: | Approx. 1 hour  |
| Open time*:               | Approx. 30 minutes  |
| Fixing time*:             | Approx. 20 minutes  |
| Walkability / Grouting*:  | Gets walkable and groutable after approx. 3 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.

|                                  |  |
|----------------------------------|--|
| 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:          | ARDEX Marble & Granite Adhesive must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excess ve 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:



**NOTE:** For the latest technical or health and safety data on this product, consult the current technical or health and safety data sheet online at [www.ardex.com.tr](http://www.ardex.com.tr)