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MAY 2025

(SUPERSEDES NOVEMBER 2022)

PRODUCT DATA SHEET

# ARDEX X7001

## Grey Rapid Drying Flexible Floor Tile Adhesive

- Ideal for wood-based sheets and boards -RAPIDRY FORMULA reduces the risk of mix water affecting wooden substrates
- Rapid hardening and drying - can be trafficked and grouted 2 hours after fixing
- Use with all tile types including fully vitrified, porcelain, agglomerate stone and natural stone
- Mix consistency facilitates solid bedding



**MICROTEC**  
fibre reinforced technology



**RAPIDRY**



ISO 9001  
Quality  
Management  
Systems  
CERTIFIED

ISO 14001  
Environmental  
Management  
CERTIFIED

ISO 45001  
Occupational  
Health and Safety  
Management  
CERTIFIED

Reg No. FM 01207

EMS 565427

OHS 628374

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# ARDEX X7001

## Grey Rapid Drying Flexible Floor Tile Adhesive

### DESCRIPTION

ARDEX X 7001 is a grey MICROTEC fibre reinforced rapid hardening and drying, flexible cement-based floor tile adhesive. It is ideal for fixing floor tiles to wood-based sheets and boards and other surfaces. The inclusion of the fibres reduces the possibility of the floor tiles cracking over board joints if movement of the timber occurs.

The BS EN 12004 C2 FE classifies the adhesive as an "Improved fast setting cementitious adhesive with extended open time."

ARDEX X7001 has a built-in admix requiring only the addition of water to provide an adhesive with flexibility which is also suitable for fixing fully vitrified tiles, porcelain and natural stones and will allow grouting to commence after only 2 hours.

ARDEX X 7001 is a quick drying low alkalinity cement based adhesive and is therefore particularly suited for the fixing of moisture sensitive natural and agglomerated stone tiles. Consult the latest edition of BS 5385-5.

ARDEX X 7001 can also be used to adhere certain acoustic matting systems prior to tiling. ARDEX X 7001 is recommended for internal use only.

ARDEX X 7001 is also suitable for fixing tilebacker boards to wood based sheets and boards.

The mixed mortar has a pourable consistency enabling solid bedding of tiles without the need to butter the back profile.

### SURFACE PREPARATION

#### Concrete

Allow at least 6 weeks, preferably 12 weeks drying time prior to fixing tiles onto new concrete. Mechanically clean concrete and ensure curing agents are removed.

#### Cement/sand screed

Wood float finish and prevent rapid drying of the surface for 7 days. Allow to air dry for at least 3 weeks prior to tiling.

#### Calcium Sulfate-based screeds i.e. Anhydrite

Ensure they have been laid and prepared in accordance with the manufacturers' recommendations. Generally they require sanding and have a moisture content of 0.5% or less. Prime with ARDEX P 51, diluted with 3 parts of water.

#### Existing glazed ceramic tiling

Ensure existing tiling is well adhered. Thorough cleaning and rinsing off is essential. Prime tiles with ARDEX P 82 or ARDEX P4 rapid drying primer. Internal dry areas only.

#### Flooring Grade asphalt sanded

With well adhered sand key no primer is required. Internal areas only. If sand key is poor or worn off, proceed as for smooth asphalt.

#### Flooring Grade asphalt smooth

Priming with ARDEX P 82 recommended. Internal dry areas only.

#### Wood-based sheets and boards

**NOTE: As of May 2024 Plywood/Timber is not a suitable base for tiling directly to on walls or floors - BS 5385 -3: 2024**

Option 1 - Overlay with a suitable tilebacker board of appropriate thickness and fixed as per manufacturers instructions.

Option 2 - An uncoupling matting such as ARDEX Flexbone VA/2E\* can be selected providing that the plywood/timber floor is:

- the correct grade
- sufficiently dry, rigid and stable
- able to carry all anticipated static and dynamic loads without deflection
- have adequate ventilation below
- flat and level (SR1)
- securely fixed (screwed to joists at 300mm centres, including any cross-noggins, if necessary).

When installing bonded uncoupling mattings down to the surface of the timber with AF 200 Plus\*, it should be prepared to receive the adhesive. Sanding of the timber surface may be required to ensure any surface coatings are removed, e.g. varnish, lacquers, etc. \*Refer to the relevant product data sheet for further advice.

### PRIMING

The prepared board surface must be primed with ARDEX P 51 primer. The primer should be applied undiluted by brush in one coat only and allowed to dry for at least 1 hour at 20°C.

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### MIXING

ARDEX X 7001 powder is added to clean water in a clean container whilst stirring and mixed thoroughly to give a fluid, 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 3 1/2 parts ARDEX X 7001 to 1 part water.

A 20kg bag of ARDEX X 7001 requires approximately 4.5 litres of water.

The mortar is immediately ready for use and has a pot life of approximately 1 hour at 20°C.

ARDEX X 7001 should be applied at temperatures above 5°C.

### FIXING TECHNIQUE

The mixed mortar is applied onto the prepared sub-floor and combed through with the appropriate notched trowel to give straight ribs of mortar. The workability of the ARDEX X 7001 allows the floor tiles to be fixed in a single operation so that no voids are left beneath the tiles.

ARDEX X 7001 is classified as having an extended open time of not less than 30 minutes when measured in accordance with BS EN 12004. For optimum performance under typical UK site conditions tiles should be fixed within 15 minutes.

The area covered by the ribbed mortar bed should be limited so that tiles can be bedded within the open time. When the mixed mortar begins to stiffen the mortar must be discarded, do not add more water. In general, use the following square notch patterns:

5mm x 5mm for flat backed tiles, 8mm x 8mm for general floor tiling or 10mm x 10mm for keyed extruded tiles.

The size of notched trowel can be altered depending on the bed thickness required and the profile on the back of the tile, but solid bedding should always be achieved and checked for, as advised in BS 5385-3 and BS 8000 : Section 11.1.

For application onto timber based substrates the adhesive bed thickness achieved using the above notched trowels should be between 1mm and 4mm.

The newly laid tiles can be adjusted for up to 15 minutes after fixing.

### GROUTING

Tiles fixed with ARDEX X 7001 can be grouted after 2 hours at 20°C with either the ARDEX-FLEX grouts or the appropriate ARDEX epoxy grouts. For guidance on grouting natural stones, please consult the ARDEX Natural Stone Tiling Guide, with reference to using ARDEX MG grout. Higher temperatures will shorten and lower temperatures will lengthen the time taken before grouting may commence.

### COVERAGE

A 20kg bag of ARDEX X 7001 will yield approximately 14.4 litres of mortar, equivalent to approximately 4.8m<sup>2</sup> of a solid 3mm bed of adhesive. Approximately 1.4kg of ARDEX X 7001 powder/m<sup>2</sup>/mm of bed thickness.

### STORAGE AND SHELF LIFE

ARDEX X 7001 must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

### PACKAGING

ARDEX X 7001 is packed in paper sacks incorporating a polyethylene liner - net weight 20kg (White or Grey).

### PRECAUTIONS

ARDEX X 7001 is considered non-hazardous in normal usage. The presence of cement in the product gives an alkaline mortar, which may cause some local irritation if prolonged contact with the skin takes place. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes.

For further information consult the relevant health and safety data sheet.

# ARDEX X 7001

## Grey Rapid Drying Flexible Floor Tile Adhesive

### TECHNICAL DATA

Bulk density of powder:	approximately	1.3kg/ltr
Weight of fresh mortar:	approximately	1.7kg/ltr
Working time (20°C):	approximately	1 hour
Fixing time: Adjusting	approximately	15 minutes
time:	approximately	15 minutes

### Compressive Strength

After 3 hours	approximately	5 N/mm <sup>2</sup>
After 6 hours	approximately	8 N/mm <sup>2</sup>
After 1 day	approximately	10 N/mm <sup>2</sup>
After 28 days	approximately	19 N/mm <sup>2</sup>

### Tensile Bending Strength

After 3 hours	approximately	1.5 N/mm <sup>2</sup>
After 6 hours	approximately	2 N/mm <sup>2</sup>
After 1 day	approximately	3 N/mm <sup>2</sup>
After 28 days	approximately	6 N/mm <sup>2</sup>

### Early Tensile Adhesion Strength Development (DIN 18156-M)

After 3 hours	approximately	0.7 N/mm <sup>2</sup>
After 6 hours	approximately	0.9 N/mm <sup>2</sup>
After 1 day	approximately	1.2 N/mm <sup>2</sup>

### PROPERTIES TESTED TO THE REQUIREMENTS OF BS EN 12004

**Tensile Adhesion Strength** Greater than 1 N/mm<sup>2</sup> under all test conditions

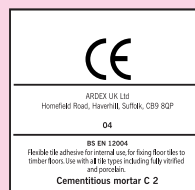
**Extended Open Time** More than 0.5 N/mm<sup>2</sup> adhesion achieved after not less than 30 minutes

### Reaction to Fire

Class E

### Underfloor Heating

ARDEX X 7001 is suitable for fixing ceramic tiles to concrete or cement and sand screeds with underfloor heating.



### ARDEX GROUP WARRANTY

ARDEX Group supplies products under a range of Brands into the UK and Ireland markets. This Warranty applies to BAL, ARDEX, Gutjahr, Wakol, Loba, wedi or Knopp products whether used individually or in combination provided they are used in accordance with the relevant product datasheets and the warranty terms and conditions are available on the website. This Warranty applies only to Products purchased and used in the UK and Ireland directly from one of the Brands or a Brand authorised stockist.

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

### TECHNICAL ADVICE HELPLINE

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ARDEX online - [www.ardex.co.uk](http://www.ardex.co.uk)

