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PRODUCT DATA SHEET

ARDEX X7G PLUS

Grey Flexible Wall and Floor Tile Adhesive

Features

- High yield - up to 6m² coverage per 18kg bag at 3mm bed thickness
- Excellent slump resistance and application properties
- Ideal for all tile types including fully vitrified, porcelain and mosaics
- Ideal for swimming pools and wet areas
- For internal and external applications



Reg No. FM 01207

EMS 565427

OHS 628374

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ARDEX X 7 G PLUS

Grey Flexible Wall and Floor Tile Adhesive

DESCRIPTION

ARDEX X 7 G PLUS is a grey cement-based floor wall and floor tile adhesive, specifically formulated for high yield along with enhanced properties of adhesion and flexibility. The mixed mortar has a slump free consistency with high initial grab, enabling heavy wall tiles to be fixed and reducing or dispensing with the need for battens and spacers.

USE

ARDEX X 7 G PLUS is ideal for fixing fully vitrified or porcelain tiles (internal areas only) and other tiles with low porosity, as well as glass and porcelain mosaics without the need for an admixture.

The BS EN 12004 C2 TE designation for ARDEX X 7 G PLUS classifies the adhesive as an "improved cementitious adhesive with additional characteristics, reduced slip and extended open time". The additional characteristics for ARDEX X 7 G PLUS, determined in accordance with BS EN 12004, are a tensile adhesion strength of greater than 1 N/mm² as an initial adhesion value, greater than 1 N/mm² after water immersion, greater than 1 N/mm² after heat aging and greater than 1 N/mm² after freeze thaw cycling, making this product suitable for internal and external applications, including swimming pools.

ARDEX X 7 G PLUS adheres strongly to most construction materials such as concrete, cement/sand renders and screeds, heated subfloors, brickwork and blockwork, gypsum plaster, anhydrite screeds, plasterboard and existing ceramic tiled surfaces

NOTE: For fixing fully vitrified or porcelain tiles in external locations, including facades, balconies, terraces and similar locations, use ARDEX MICROTEC X 77 or ARDEX MICROTEC X 78 as appropriate. When fixing natural stones, please refer to the ARDEX Natural Stone Brochure online at www.ardex.co.uk

SURFACE PREPARATION

The backgrounds to receive the ceramic tiles should be mature, stable and be installed in accordance with the relevant parts of BS 5385 and BS 8000: Part 11 Workmanship on Building Sites. Backgrounds to receive ceramic tiles should be finished to Surface Regularity 1, i.e. so any gap under a 2m straight edge does not exceed 3mm. The surface being adhered to must be clean, firm, and 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 background has adequate drying time, as given in the relevant part of BS 5385, prior to fixing the tiles. ARDEX X 7 G PLUS can be applied to dry or moist surfaces but moisture sensitive materials must be dry and remain dry after fixing.

MIXING

ARDEX X 7 G PLUS powder is added to clean water in a clean container whilst stirring, and should be mixed thoroughly to give a slump free, easily worked mortar. The mix proportions by volume are approximately:

13/4 parts ARDEX X 7 G PLUS powder to 1 part water. An 18kg bag of ARDEX X 7 G PLUS requires approximately 7.5 litres of water.

The consistency of the adhesive can be adjusted to suit site conditions and the materials being fixed.

The mixed mortar should be applied at temperatures above 5°C.

The pot life of the mixed mortar is approximately 5 hours at 20°C.

APPLICATION

The mixed mortar is applied to the prepared surface with a trowel and then combed through with a suitably sized notched trowel in straight ribs to give a ribbed mortar bed. The tiles should be fixed within the open time of the applied adhesive and pressed into place with a twisting and sliding action to achieve the required contact. For tiling to walls in dry internal locations the adhesive contact should be at least with 50% of the back of the tile. For maximum performance at least 80% adhesive contact of the back of the tile should be achieved.

When tiling to floors, wet areas such as showers and swimming pools, or in external locations, achieving a solid bed usually requires the tiles to be buttered immediately prior to placing into the ribbed bed so no voids are left beneath the tiles. The size of notched trowel chosen depends on the tile size, the surface being tiled, the profile on the back of the tile and the degree of coverage required. ARDEX X 7 G PLUS 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 10 minutes and tiles can then be adjusted for up to 20 minutes at 20°C.

GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that the tiles will not be dislodged. When grouting wall tiles, ARDEX X 7 G PLUS is normally hard enough after 8 hours at 20°C depending on the porosity of the tile and the background. When grouting floor tiles, ARDEX X 7 G PLUS is normally hard enough after 24 hours at 20°C to accept foot traffic depending on the porosity of the tile and the background. Higher temperatures will shorten and lower temperatures will lengthen these times.

The tile joints should be grouted with the appropriate ARDEX-FLEX Tile Grout or ARDEX EG 8 PLUS Epoxide Tile Grout where

chemical resistance and hygienic joints are required. When grouting natural stones, please refer to the ARDEX Natural Stone Brochure online at www.ardex.co.uk

COVERAGE

An 18kg bag of ARDEX X 7 G PLUS will yield approximately 18 litres of mortar, using approximately 1kg of powder per m² per mm thickness of adhesive bed. The actual coverage achieved in practice will depend on the back profile of the tile, notched trowel and technique used to bed the tiles e.g. an 18kg bag of ARDEX X 7 G PLUS will cover approximately 6m² of solid 3mm bed adhesive.

PRIMERS

ARDEX P 51

Concentrated Water-Based Primer and Bonding Agent for use on absorbent backgrounds, plaster and anhydrite/calcium sulphate screeds prior to the use of ARDEX X 7 G PLUS. Dilute ARDEX P 51 1:3 with water.

ARDEX P 4

Ready Mixed Multipurpose Rapid Drying Primer for use on ceramic and porcelain tiles, concrete and terrazzo. ARDEX P 4 Primer is solvent free and dries after 60 minutes. It is suitable for use in dry, damp or wet (not submerged) internal and external locations.

ARDEX P 82

Non-flammable Water-Based Synthetic Primer for use on smooth impervious surfaces including existing ceramic tiling, internal asphalt, terrazzo, timber walls, sound and well adhered paint coatings and old adhesive residues, prior to the use of ARDEX X 7 G PLUS.

GUIDANCE NOTES ON BACKGROUNDS TO BE TILED

Concrete

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

Cement/sand render and screed

Wood float finish and prevent rapid drying of the surface for 3 days (renders) or 7 days (screeds). Allow render to air dry in good conditions for at least 2 weeks prior to tiling or at least 3 weeks for screeds prior to tiling.

Note for Screeds:

With an ARDEX A 38 cement/sand screed, tiles can be fixed after only 4 hours.

Note for Renders:

With ARDEX AM 100 Rapid Hardening One Coat Tile Render tiles can be fixed only 2 hours after application.

Gypsum Plaster

Do not use in wet or damp conditions. Gypsum plaster must be dry and at least 4 weeks old prior to tiling. Wire brush plaster to remove dust. Use ARDEX P 51 Primer. Tile weight should not exceed 20kg/m².

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Plasterboard

Ensure boards are rigidly braced and adequately supported. Fix directly to the paper facing. Do not skim with plaster. Tile weight should not exceed 32kg/m².

Wood-based sheets and boards

Prior to tiling, ensure that new or existing boards are dry i.e. conditioned to the environment in which they will be used, and are rigidly fixed, ventilated and free from barriers to adhesion. For timber floors ARDEX recommend the use of ARDEX X 7001 adhesive and ARDEX P 51 Primer.

When using ARDEX X 7 G PLUS on plywood walls, the plywood needs to be primed with ARDEX P 82 Primer.

NOTE: BS 5385 advises that wood based sheets and boards should be avoided if at all possible as a background for tiling. If such boards, e.g. plywood board, chipboard, etc. have to be used, they should be restricted to small areas and installed in such a way that they provide a dimensionally stable and rigid background. The backs and edges of such boards should be treated against the ingress of atmospheric moisture that would result in movement and warping.

Tiles should not bridge joints between boards. Since plywood and other wood based boards are not dimensionally stable, they should not be used in wet or damp conditions where they will be subjected to changes in atmospheric humidity. Ceramic tiles should not be used on timber based boards in wet areas or external locations.

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 must have a moisture content of 0.5% or less measured using the carbide method. Prime with ARDEX P 51, diluted with 3 parts of water.

Existing glazed ceramic tiling

Ensure existing tiling is well adhered and can support the new tile bed. Thorough cleaning and rinsing off is essential. Prime tiles with ARDEX P 82 (internal dry areas only) or ARDEX P 4 (external locations).

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.

Asphalt smooth

Priming with ARDEX P 82 recommended. Internal dry areas.

Underfloor heating

ARDEX X 7 G PLUS is suitable for fixing ceramic tiles to concrete or cement/sand screeds with fully commissioned underfloor heating.

PACKAGING

ARDEX X 7G PLUS is packed in paper sacks incorporating a polyethylene liner - net weight 18kg.

STORAGE AND SHELF LIFE

ARDEX X 7 G PLUS 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.

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.co.uk

TECHNICAL DATA

Weight of fresh mortar approx. 1.4kg/litre
Working time (20°C) approx. 5 hours
Adjusting time (20°C) approx. 20 minutes

PROPERTIES TESTED TO BS EN 12004

Extended open time: More than 0.5 N/mm² adhesion achieved after not less than 30 minutes

Slump resistance: Slip - less than 0.5mm

Tensile adhesion strength
(28 days dry) 1.0 - 2.0 N/mm²
(28 days wet) 1.0 - 2.0 N/mm²
(After freeze-thaw) 1.0 - 1.5 N/mm²

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.

**TECHNICAL ADVICE HELPLINE:
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