



ARDEX X 22

Superior Tile Adhesive

Excellent adhesion:

- Double bonding strength of ordinary cement mortar
- Tensile adhesion strength greater than 0.5MPa:
 - after water immersion
 - after heat aging
 - after freeze-thaw cycling

Excellent slump resistance, design for heavy feature stone

Low shrinkage: Due to Selective filler



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ARDEX X 22

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DESCRIPTION

ARDEX X 22 is a cement-based tile adhesive for fixing wall tiles with water absorption over 5%, and is suitable for interior and exterior use, ideal for heavy feature stones.

Standard

JC/T 547-2017 (C1T)

AREAS OF APPLICATION

ARDEX X 22 consists of special cements, selective filler, polymer and additives.

The EN12004 C1 T designation for

ARDEX X 22 classifies as a “normal setting cementitious adhesive with reduced slip”.

ARDEX X 22 is ideal for wall application, can be used for commercial and residential, internal and external situation, and wet or dry areas, e.g. roof, bathroom, terrace and balcony.

For further information, please contact ARDEX Technical Services.

SUBSTRATE PREPARATION

The backgrounds and surfaces to receive the tiles must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barriers to adhesion, as well as being strong enough to support the weight of the tiles being fixed.

As concrete exhibits drying shrinkage, allow to cure for at least 6 weeks prior to tiling. Allow cement sand render and screeds at least 14 days to cure prior to tiling. The tensile strength should be greater than the adhesive strength of ARDEX X 22.

ARDEX X 22 is suitable for dry or moist surfaces, e.g. cement sand render and screed or concrete; however, the substrates for moisture sensitive materials must be dry, and remain dry after tiling.

Mixing

ARDEX X 22 powder is added to clean water in a clean container whilst stirring vigorously and mixed thoroughly to give a lump free easily worked mortar of a thick creamy consistency. Allow to stand for 3 minutes. Restir the mortar thoroughly and the adhesive is ready for use.

MIXING RATIO

If the end of the batch number is G, approximate 7.5L of clean water per 25kg bag of ARDEX X 22.

If the end of the batch number is not G, approximate 5.6L of clean water per 25kg bag of ARDEX X 22.

Note

The consistency of the adhesive can be adjusted to suit site conditions and the materials being mixed, but must always be slump-free.

Mix appropriate amount of ARDEX X 22 according to the applying area within the pot life. Pot life and adhesion strength stage may change by the temperature. Do not apply at temperatures below 10° C or over 35° C

APPLICATION

The tiles must be pressed firmly into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tile at right angles to the notch pattern to ensure 100% coverage on the back of the tile. Substrate surface, type and size of the tiles will determine the selection of the trowel. As a general guide use a 3 x 3 x 3mm notch trowel for thin flat back tiles, use a 6 x 6 x 6mm notch trowel for general walls tiling, and 10 x 10 x 10mm notch trowel for floor tiling.

Tiles with ribbed or keyed back profiles should also be buttered to ensure complete coverage.

ARDEX X 22 has an open time of 20 minutes and pot life 120 minutes. Please be aware of site conditions when considering these times and only spread enough adhesive so that the tiles can be fixed while the mortar is still wet.

For uneven or rough surface, recommend ARDEX 22 (thickness under 5mm) or ARDEX B 60 to level the substrate, then apply tiling after dry (about 24 hours).

GROUTING

Grouting may be allowed after approximately 24 hours at 23°C.

The tile joints should be grouted with the appropriate ARDEX grout. Recommend ARDEX epoxy grout for chemical corrosion resistance and resistance to water penetration and stain.

COVERAGE

25kg of ARDEX X 22 produces 17.8 L fresh mortar, 1.45 kg powder/m² with thickness 1 mm. The coverage will vary depending on substrate condition, tile type and application technique. 25 kg ARDEX X 22 is sufficient for approximately 8.4 m² by using a 6 x 6 x 6mm notched trowel.

PACKAGE

ARDEX X 22 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

STORAGE & SHELF LIFE

ARDEX X 22 has a shelf life of 12 months when stored in the original unopened packaging, in a dry place, avoid ventilation.

Technical Data

Testing condition is at 23°C and 50% RH standard laboratory.

ARDEX Quality Standard

Fresh Mortar density approx.. 1.69kg/L

Open Time approx. 20 min

Pot Life approx. 120 min

Slip resistance ≤0.5mm

Tensile adhesion strength after 28 days dry ≥ 1.0 MPa

Water immersion ≥ 1.0 MPa

Heating ≥ 0.5MPa

Freeze-thaw ≥ 0.5 MPa

PROPERTIES TESTED TO EN12004

Slip Resistance

Slip- less than 0.5mm

Tensile Adhesion Strength:

Greater than 0.5Mpa under all test conditions

SAFETY PRECAUTIONS

This product is considered non-hazardous in normal usage. The presence of Portland cement in the product gives an alkaline mortar which may cause some irritation if prolonged contact with skin takes place.

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and eye protection and keep the product out of the reach of children.

Avoid generation of airborne dust during mixing. If swallowed do not induce vomiting, give a glass of water and contact a doctor.

For further material safety data, consult the

The technical details, recommendations and other information contained in this datasheet are given in good faith and represent the 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 National or Local Standard, our instructions & recommendations, and only for the uses they are intended. Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations. Our Company policy is one of continuous Research & Development; we therefore reserve the right to update this information at any time without prior notice. We 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. The supply of our products and services is also subject to certain terms, warranties & exclusions; and these details will be made available to you on request. You should make yourself familiar with them.