



ARDEX X 242

Improved Porcelain Tile Adhesive

Advantages

- Suitable for vitrified tiles, ensuring long-lasting bond stability
- Enhanced adhesion exceeding C2
- Easy to apply
- Eco-friendly formulation



Description

ARDEX X 242 is a cement-based tile adhesive for wall and floor applications. It offers excellent bonding performance and is an ideal choice for fixing vitrified tiles and other low-absorption tiles. The product is formulated with high-grade cement, selected aggregates, polymers, and special additives, and complies with the technical requirements of C2.

Areas of Application

Suitable for tile installation on both interior and exterior walls and floors;

Suitable for vitrified tiles and other low-absorption tiles;

Suitable substrates include cement mortar renders, concrete, brick walls, AAC blockwork, cement-based self-leveling screeds, etc.

Substrate Preparation

The substrate surface must be clean, sound, and free from dust, dirt, grease, curing compounds, loose debris, and any other substances that may limit adhesion, ensuring adequate bond strength to support the weight of the tiles. Cement-based levelling layers must be cured for more than 14 days, with tensile strength greater than the bond strength of the tile adhesive used.

When tiling onto dense and smooth substrates such as newly cast concrete, the surface should first be mechanically roughened.

Mixing

Pour clean water into a clean mixing container first, then add ARDEX X 242 powder and mix immediately until a smooth, lump-free, workable mortar is obtained.

Mechanical mixing is recommended. The recommended mixing ratio is:

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approximately 4.6 L of clean water for 20 kg of ARDEX X 242 powder.

The above water addition is based on tests carried out by our company using standard mixing equipment at room temperature. Different mixing equipment may affect the actual water demand. The mixed mortar must be used immediately. At 23°C, the pot life is approximately 2 hours.

Mix only as much material as can be applied within the working time. Working time and strength development will be accelerated at higher temperatures and delayed at lower temperatures. Any tile adhesive that has exceeded its usable time must be discarded and must not be retempered with water. Do not apply at temperatures below 10°C or above 35°C.

Application

Before application, remove all contaminants from the substrate surface and clean off dust, dirt, and any other substances from the back of the tiles that may impair adhesion.

First, apply a thin contact layer of the mixed adhesive mortar firmly onto the substrate. Then comb additional mortar to the required thickness using a suitable notched trowel.

The area covered with adhesive in one application should be limited to what can be tiled within the working time, so as to avoid fixing tiles onto adhesive that has already skinned over.

When installing vitrified tiles, porcelain tiles, or large-format tiles, the back-buttering method is recommended, i.e. applying a thin coat of adhesive to the back of the tile as well, in order to improve effective coverage and bedding contact. After placement, the tiles should be firmly pressed into position. If necessary, tap lightly with a rubber mallet to ensure full contact and proper alignment.

Grouting

At 23°C, grouting can generally be carried out after at least 24 hours. Select a suitable ARDEX series grout for the joints.

Packaging

ARDEX X 242 is packed in paper sacks incorporating a polyethylene liner – net weight 20kg

Color

Grey

Consumption

Approx. 1.5 kg/m²/mm; actual consumption varies due to multiple factors during installation.

Standard

JC/T 547-2017 and JC/T 547-2026 (C2)

Storage & Shelf Life

Unopened and stored in a cool, dry place, the product has a shelf life of 12 months.

Technical Data

The following data were measured in a standard laboratory environment at 23°C and 50% RH.

Fresh weight	Approx. 1.63kg/L
Open time	Approx. 20 minutes
Pot life	Approx. 120 minutes
Bonding original strength	≥ 0.5 MPa
Water immersion	≥ 0.5 MPa
Heating	≥ 0.5 MPa
Freeze-thaw	≥ 0.5 MPa

Health & Safety

ARDEX X 242 is considered non-hazardous in normal usage. However, by containing Portland cement, quartz sand and other alkaline reacted materials, skin irritation may be caused for long term contact. Avoid breathing in powder. Avoid contact of skin and eye. Wear appropriate protection gear such as face mask, gloves, and safety glasses. In case of skin and eye contact, wash thoroughly with water, also consult a doctor. For the case of powder breathing in, move to place with good ventilation, wash mouth properly, consult a doctor for any uncomfortable. This product is safe for health and environment.

For further safety & handling information, please consult the Material Safety Data Sheet (MSDS).