



ARDEX X 240

Porcelain and Stone Adhesive

Advantages

- High bond strength
- Superior slip resistance
- Good workability
- Eco-friendly formulation



Description

ARDEX X 240 is a polymer-modified, cement-based tile adhesive. The formulation is introduced from Germany and composed of high-grade cement, carefully selected aggregates, high-quality synthetic resins, and special additives—time-tested and proven. It can be used for bonding the vast majority of tile types.

Areas of Application

Suitable for interior and exterior walls and floors.

Tile types include: vitrified porcelain tiles, stoneware tiles, earthenware/ceramic tiles, marble (non-moisture-sensitive), glass mosaics, etc.

Suitable substrates: concrete, cement render, brickwork, lightweight concrete, fiber-cement board, gypsum board, 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 container, then add ARDEX X 240 powder and immediately mix until a homogeneous, lump-free, workable mortar is obtained. Mechanical mixing is recommended. The mixing ratio by weight is: 20 kg ARDEX X 240 powder with approximately 4.8 L of clean water.

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The above water addition is based on tests performed by our company at room temperature using standard mixing equipment; different mixers may affect the required water amount. The mixed mortar must be used immediately; at 23°C, the pot life is approximately 2 hours. Within the working time, mix only the amount of material suitable for the area to be installed. Working time and strength development will accelerate or slow down as temperature rises or falls. Adhesive that has exceeded its workable time must be discarded; do not add water and remix. Do not apply below 10°C or above 35°C.

Application

Before installation, clean contaminants from the substrate surface. Remove dust, dirt, and any contaminants from the back of the stone that may affect adhesion. If there is a mesh backing bonded with organic resin on the back of the stone, the mesh and resin must be completely removed.

Recommended thin-bed method: First, forcefully skim a thin, tight layer of mixed adhesive onto the substrate, then apply additional adhesive to achieve the required thickness. Use an appropriately sized notched trowel to comb the adhesive into ridges. Limit the spread to within 1 m² at a time and ensure installation can be completed within 30 minutes.

For installing large-format tiles and stone, a double-buttering method should be used: After cleaning the back of the tile, skim-coat a full, thin layer of mixed adhesive over the back of the tile; at the same time, apply a full, < 1 mm layer of adhesive on the substrate, then trowel additional adhesive with a notched trowel to form uniform ridges as required. Set the prepared tile into place within the open time and press firmly.

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 240 is packed in paper sacks incorporating a polyethylene liner – net weight 20kg

Color

Grey and white available

Consumption

Approx. 1.35 kg/m²/mm; actual consumption varies due to multiple factors during installation.

Standard

JC/T 547-2017 and JC/T 547-2026 (C1TE)

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. 1.65kg/L
Open time	Approx. 30 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
Slip resistance	≤ 0.5 mm

Health & Safety

ARDEX X 240 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).