



# ARDEX X 220

## High Performance Tile Adhesive

### Advantages

- Wide compatibility across tile types
- High bond strength, Superior slip resistance
- Good workability
- Eco-friendly formulation



### Description

ARDEX X 220 is formulated from special cements, selected graded aggregates, polymer modifiers, and specialty additives. It is suitable for interior and exterior installation of standard ceramic wall and floor tiles and for certain low-absorption tiles such as vitrified porcelain and mosaics.

### 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 220 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 220 powder with approximately 4.4 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

When installing tiles, use a notched trowel to form parallel ridges of adhesive on the substrate and firmly press the tiles into the fresh, pliable mortar. Wall tiles with back grooves must be pre-filled to ensure full contact and to avoid hollow-sounding areas. ARDEX X 220 provides an open time of approximately 20 minutes and a pot life of approximately 120 minutes. Use immediately after mixing, control the spread area, and complete installation within the open time. If the mixed adhesive is left to stand for a long time before application, the open time will be greatly reduced.

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

### Color

Grey and white available

### Consumption

Approx. 1.4 kg/m<sup>2</sup>/mm; actual consumption varies due to multiple factors during installation.

### Standard

JC/T 547-2017 and JC/T 547-2026 (C1T)

### 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. 1.69kg/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
Slip resistance	≤ 0.5 mm

### Health & Safety

ARDEX X 220 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).