ARDEX X 210

Superior Strength Tile Adhesive

Advantages

- **Widely applied**
- **Excellent adhesion**
- **Good workability**
- **Eco-friendly formulation**

JC/T 547 – 2017 C1 CERAMIC TILE ADHESIVE

Description

ARDEX X 210 is a polymer-modified tile adhesive manufactured using dry-mix, pre-blended technology. It can be used with the traditional thick-bed method for installing high-absorption ceramic tiles.

Areas of Application

Suitable for bonding various standard ceramic tiles and stone on interior and exterior walls and floors.

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 210 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 210 powder with approximately 5 L of clean water. 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.

ARDEX (Shanghai) Co., Ltd
4F, Bld 2, Guizhong Park, No.481, Guiping Rd, Xuhui, Shanghai, PRC
TEL: (+86)21-64161800
www.ardexchina.com

ARDEX New Materials & Technology (Zhejiang) Co., Ltd
No. 299, Chuangqiang Rd, Linhu Industrial Park, Pinghu City, Zhejiang Province, PRC
TEL: (+86)573-85600618

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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/tiles that may affect adhesion. If there is a mesh backing bonded with organic resin on the back, 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 parallel ridges. Limit the spread to within 1 m² at a time and ensure installation can be completed within 20 minutes.

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

Color

Grey

Consumption

Approx. 1.4 kg/m²/mm; actual consumption varies due to multiple factors during installation.

Standard

JC/T 547-2017 and JC/T 547-2026 (C1)

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. 1.68kg/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 210 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 uncomforting. This product is safe for health and environment.
For further safety & handling information, please consult the Material Safety Data Sheet (MSDS).