



ARDEX X 80

MICROTEC Multipurpose Adhesive

Advantages

- ARDEX MICROTEC Technology
- Variable water addition for wall and floor consistency
- For adhesive bed thicknesses up to 15 mm
- Particularly suitable for laying large-format tiles and slabs



Description

Powder with special cements, fillers, special additives, MICROTEC fibres and flexible plastics.

Areas of Application

Inside and outside. Wall and floor.
Thin and medium-bed adhesive with long working time and variable consistency adjustment for wall and floor application. With ARDEX MICROTEC technology for high installation reliability under real construction site conditions.
Suitable for sintered slabs, ceramic thin panels, large-format tiles, natural stone (non-moisture-sensitive), and engineered stone; Suitable substrates include cement mortar screeds, concrete, brickwork, autoclaved aerated concrete blocks, and cement-based self-leveling underlayments.

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 clear water into a clean mixing vessel and mix in enough ARDEX X 80 powder to form a lump-free mortar. After a maturing time of approx. 2 minutes, the mortar should be stirred again vigorously by machine.

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Wall consistency: for 25 kg of ARDEX X 80 powder, approx.

9.5 litres of water required

Soil consistency: approx. 11 litres of water are required for 25 kg of ARDEX X 80 powder

The mortar consistency can be varied according to the type, size and weight of the flooring to be laid.

To produce a special adhesive with high mouldability and water-repellent properties, ARDEX X 80 powder is mixed with ARDEX E 90 synthetic resin coating diluted 1:2 with water.

The mixing ratio is approx.:

	Wall	Floor
ARDEX X 80	25 kg	25 kg
ARDEX E 90	3.5 kg	4.2 kg
Water	7.0 kg	8.3 kg

Application

Plasterboard, insulation boards made of rigid foam and mineral fibre, tile construction boards, ceiling, visual and sound insulation boards can be applied and laid up to a maximum dry layer thickness of 15 mm. ARDEX A 950 must be used indoors and ARDEX A 930 outdoors when applying in batches and beyond a dry layer thickness of 15 mm.

Rough and uneven substrates can be levelled in smaller areas with ARDEX X 80 up to a maximum of 15 mm.

In addition, suitable levelling compounds from the ARDEX range must be used.

Once the applied primer has dried through or the smoothing layer has hardened, the floor can be laid in thin and medium beds up to a dry layer thickness of max. 15 mm.

ARDEX X 80 is applied to the substrate and combed with a block notch to ensure full-surface bonding of the tiles or slabs.

The substrate, type, size and back of the tiles determine the choice of block toothing.

The laying areas must only be large enough to allow the ceramic materials to be easily laid in the pasty, moist mortar bed within the laying time. The wetting ability of the mortar to absorb the ceramic materials must be checked regularly and guaranteed.

When laying glass, porcelain and ceramic mosaics, the mortar should be applied with a 3 mm or 4 mm notch, depending on the substrate properties, and then smoothed down. Place the mosaic in the fresh adhesive and press down with a foam rubber board to ensure sufficient wetting. Joints may need to be scraped out.

Ceramic materials can be corrected up to 15 - 30 minutes after laying. Installed surfaces can be walked on / grouted after 1 day (wall surfaces can be grouted after approx. 8 hours).

ARDEX X 80 must be applied at ambient and substrate temperatures above +5°C. Higher temperatures shorten, lower temperatures extend the time for processing and loading.

Consumption

As an example, when applied on a smooth surface with a 6 × 6 × 6 mm notched trowel, the consumption is approximately 1.9 kg/m².

Storage & Shelf Life

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

Technical Data (ARDEX Quality Standard)

Bulk density	Approx. 1.20 kg/l
Fresh weight	Approx. 1.60 kg/l
Processing time	Approx. 3 hours
Insertion time	Approx. 60 Minutes
Correction time	Approx. 30 Minutes
Can be walked on / grouting	Approx. 24 hours
Water immersion	1.0 - 2.0 MPa
Heating	1.0 - 2.0 MPa
Freeze-thaw	1.0 - 2.0 MPa
According to DIN EN 12004	C2TES1
Underfloor heating	Yes
EMICODE	EC 1 PLUS
Packaging	Bags with 25 kg net

Health & Safety

ARDEX X 77 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).