



ARDEX X 3 T-W

Wall & Floor Tile Adhesive

- Cement based
- Slip resistant
- Water resistant
- Frost resistant
- High strength
- Easy and convenient application
- Very low emissions

USE

Suitable for ceramic tiles, porcelain ceramics, mosaics made of glass and porcelain as well as non moisture sensitive marble & natural stones. For interior and exterior areas, walls & floors.

DESCRIPTION

Powder consisting of cement, fillers, slip resistancy & adhesion increasing polymers and additives.

Mix with water to produce a soft, paste-like adhesive mortar which, after hydration and drying, hardens to make a virtually stress-free material which is water and weather resistant after a few days. These materials make a virtually insoluble bond with practically all building materials, such as concrete, plaster, bricks, plaster, screeds – even anhydrite or poured asphalt (indoors) – and similar substrates and provide a permanent joint between building materials.

SURFACE PREPARATION

The backgrounds and surfaces to receive tiles must be clean, firm, free of dust, dirt, oil, grease and other barriers to adhesion, as well as being strong enough to support the weight of the tiles being fixed. Ensure that the background has adequate drying time and is correctly primed, where required, prior to fixing the tiles.

Backgrounds to receive ceramic tiles should be finished so any gap under a 2m straight edge does not exceed 3mm. ARDEX X 3 T-W can be applied to dry or moist surfaces, but moisture sensitive materials must remain dry after tiling.

ARDEX Waterproofing Systems can be used prior to tiling to create a waterproof protective coating that guarantees the prevention of water damage to floors and walls, by protecting moisture sensitive backgrounds in wet locations.

MIXING

Add the ARDEX X 3 T-W powder to water in a clean container, whilst stirring and mixing thoroughly to give a slump-free, easily worked mortar.

The use of an ARDEX mixing paddle with a 10mm chuck, variable speed electric drill, makes light work of mixing.

The mixing proportions by volume are:- Approximately 3 parts ARDEX X 3 T-W powder: 1 part water. A 25kg bag of ARDEX X 3 T-W requires approximately 7,25 litres of water.



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EN 12004:2007+A1:2012

40035 ARDEX X3T-W, EN 12004:C1T

Normal setting cementitious adhesive with reduced slip for internal and external tiling

Reaction to fire	: E
Bond strength	
Initial tensile adhesion strength	: $\geq 0,5 \text{ N/mm}^2$
Durability of bond strength	
Tensile adhesion strength after heat ageing	: $\geq 0,5 \text{ N/mm}^2$
Tensile adhesion strength after water immersion	: $\geq 0,5 \text{ N/mm}^2$
Tensile adhesion strength after freeze-thaw cycles	: $\geq 0,5 \text{ N/mm}^2$
Release of dangerous substances	: NPD



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The consistency of the adhesive can be adjusted to suit site conditions and the materials being fixed, but must always be slump-free. The pot life of the mixed mortar is approximately 5 hours at normal temperatures (20°C). The mortar should be applied at temperatures above 5°C.

APPLICATION

The mixed adhesive is applied to the prepared surface with a trowel, and then combed through with a suitably sized notched trowel in straight ribs to give a ribbed mortar bed. The tiles should be fixed with in the open time of the applied adhesive, and pressed into place with a twisting and sliding action to achieve the required contact. For tiling to walls in dry internal locations, the adhesive contact should be with at least 50% of the back of the tile. For maximum performance, at least 80% adhesive contact to the back of the tile should be achieved.

When tiling to all floors, and in wet areas, such as showers and swimming pools, or in external locations, achieving a solid bed usually requires the backs of the tiles to be buttered immediately prior to placing into the ribbed bed, so no voids are left beneath the tiles.

The size of the notched trowel chosen depends on the tile size, the surface being tiled, the profile on the back of the tile and the degree of coverage required.

For optimum performance under typical site conditions, tiles should be fixed within 20 minutes, and can be adjusted for up to 10 minutes at 20°C. For areas that need rendering, the use of ARDEX AM 100 rapid hardening render, which will allow tiling to commence after only 2 hours at 20°C, should be considered.

If the substrate is particularly rough or uneven, it is advisable to use a smooth spatula and the mortar to level off the surfaces. Once the smooth layer has set, you can then proceed with the work as previously described. For thicknesses greater than 5 mm the surface can be levelled with ARDEX AR 300, and application can be started only after 2 hours.

The absorbency of the substrate and the temperature conditions determine the size of the surface to be prepared. In each case, it must be possible to easily press all the sections to be attached, into the paste-like, moist bed of mortar, within the time allowed for laying. Fresh mortar must be protected from direct water contact for at least 1 day.

GROUTING

Grouting can proceed once the tile bed has hardened sufficiently so that the tiles will not be dislodged. When grouting wall tiles, ARDEX X 3 T-W is normally hard enough after 8 hours at 20°C, depending on the porosity of the tile and the background. When grouting floor tiles ARDEX X 3 T-W is normally hard enough after 24 hours at 20°C to accept foot traffic depending on the porosity of the tile and the background. Higher temperatures will shorten and lower temperatures will lengthen these times.

The tile joints should be grouted with appropriate ARDEX cement or epoxy based grouts.

IMPORTANT NOTES

Handle ARDEX X 3 T-W mortar at temperatures in excess of 5 °C. Never use anti-freeze or similar additives to work on lower temperatures.

Application on fresh concrete is not advised until its moisture level decreases beyond 5%. (Approx. 4-6 weeks) For a quick installation after only 4 hours ARDEX A 38 rapid drying screed cement can be used.

For tile installations on balconies, terraces, facades, also to prevent the penetration of moisture and therefore blooming, to join large-format tiles and similar with impervious and smooth backs and for fixing stoneware tiles to non-absorbent substrates use of ARDEX X 5 T or ARDEX X 7 G is suggested.

Tile size is an important factor for exterior areas, especially for terraces and balconies. Using ARDEX FB 9 L is strongly advised for exterior areas & large tiles.

ARDEX WA epoxy adhesive and ARDEX WA epoxy grout should be used in thermal pools and in areas subject to chemical risks.

Natural stones that are sensitive to moisture bears a risk of change in color or having optical defects. Using ARDEX S 28 MICROTEC, large format tile adhesive or ARDEX Marble & Granite Adhesive is strongly advised for such coverings.

For the latest technical or health and safety data on this product, consult the current technical or health and safety data sheet online at www.ardex.com.tr

Technical Data According To ARDEX Quality Standards

Mixing ratio:	7,25 liters of water per 25kg bag
Bulk density:	Approx. 1,5 kg/l
Weight of fresh mortar	Approx. 1,6 kg/l
Material Requirement	Depending on the substrate and the trowel size; (approx.)
	Trowel Size Consumption
	3x3x3mm 2,0 kg/m ²
	6x6x6mm 2,5 kg/m ²
	8x8x8mm 3,0 kg/m ²
Working time / Pot life *:	Approx. 5 hours
Open time *:	Approx. 20 minutes
Fixing time *:	Approx. 15-20 minutes
Walkability / Grouting *:	Gets walkable and groutable after approx. 24 hours.
Grouting on Walls *:	Approx. 8 hours
*All data is approximately based on laboratory test made at a temperature of +20°C and relative humidity of %65. Environmental conditions may change these values. Higher temperatures and lower relative humidity decrease these duration whereas lower temperature and higher relative humidity increases them.	
Suitable for underfloor heating:	Yes
EMICODE:	EC 1 Plus - Very low emission
GHS/CLP classification:	GHS 05, Corrosive
GGVSEV/ADR classification:	None
Packaging:	25 kg paper bag
Storage and Shelf Life:	ARDEX X 3 T must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excess moisture. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging

Recommended Mixing Paddle

