



ARDEX WA white

Epoxy adhesive

- Epoxy resin adhesive
- Complies with R2T requirements according to EN 12004
- Chemical resistant
- Highly resilient
- Easy to process
- Good stability



Area of application

Indoor and outdoor, walls and floors.

White two-component epoxy resin adhesive mortar. ARDEX WA white epoxy adhesive is waterproof, frost and weather resistant after hardening and is particularly suitable for use in areas subject to high chemical and mechanical stress.

For preparing and laying:

- ceramic tiles and slabs
- clinker bricks and split tiles
- mosaic

for applications where cementitious mortars are not sufficiently resilient or resistant, e.g. in slaughterhouses, dairies, commercial kitchens, breweries, battery rooms, swimming pools and spas, and other areas subject to chemical or high mechanical stress. Particularly suitable for bonding translucent glass mosaics/glass tiles in wet areas (prevents clouding due to moisture penetration).

In small areas, ARDEX WA white epoxy adhesive can also be used for grouting.

Art

White two-component epoxy resin adhesive mortar consisting of a paste-like resin component and a paste-like hardener component.

ARDEX WA white epoxy adhesive is waterproof, frost and weather resistant after hardening, has excellent strength and adheres practically insolubly to any suitable substrate, such as concrete, cement screeds, cement plaster, terrazzo coatings and old tiles.

Preparation of the surface

The dry substrate must be solid, load-bearing, torsion-resistant, free of dust, contaminants or release agents, and comply with the currently valid ÖNORM standards and regulations.

We recommend vacuuming the substrates with a suitable industrial vacuum cleaner. Particularly rough or uneven surfaces are smoothed with a smoothing trowel before applying the adhesive bed with ARDEX WA white epoxy adhesive.

On highly absorbent substrates, ARDEX WA white can be pre-scratched or primed with ARDEX EP 2000 Multifunctional Epoxy Resin. Please observe the technical data sheets for ARDEX EP 2000.

ARDEX WA white adheres to glass and tiles after cleaning (sanding) without primer. Metals must be tested in individual cases.

In permanently wet areas and outdoors, suitable/tested



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ARDEX sealing systems must be applied to existing tile coverings as a bonding agent and waterproofing.

Processing

Suitable protective clothing (e.g. safety goggles, gloves) must be worn during mixing and processing.

The resin and hardener components, which are matched in quantity in the containers, are mixed thoroughly with a suitable stirrer, e.g. a spiral stirrer, to form a uniform white, homogeneous mortar.

Apply ARDEX WA white epoxy adhesive to the substrate and comb vertically with a notched trowel. For mosaics, smooth the adhesive ridges.

The substrate surface, the condition of the tile backs, and the type and size of the tiles determine the choice of notched trowel.

Press the tiles into the paste-like adhesive bed and push them in. Ensure that they are embedded over the entire surface.

The tiles adhere immediately without slipping.

The tiles can be adjusted during the entire working time of approx. 60 minutes.

To avoid shortening the working time due to self-heating, it is recommended to apply ARDEX WA white epoxy adhesive to the substrate immediately after mixing in a single operation.

Do not use ARDEX WA white epoxy adhesive at temperatures below +10°C or above +30°C. Tools can be cleaned with water and a brush before the mortar hardens.

ARDEX WA white can be processed for approx. 60 minutes at temperatures between +18°C and +20°C. Lower temperatures extend the working time, higher temperatures shorten it.

No thinners, solvents or water may be used to adjust the mortar consistency.

If in doubt, carry out a test application.

Load capacity

ARDEX WA white epoxy adhesive can be walked on after just 12 hours at temperatures between +18°C and +20°C and can withstand mechanical stress after 24 hours.

Chemical resistance

After hardening, ARDEX WA white is resistant to aqueous salt solutions and alkalis as well as a range of diluted mineral and organic acids and organic liquids and solutions.

Chemical resistance – see Technical Data! Please enquire for special cases.

The smooth, closed and colour-fast surface of the jointing compound does not yellow or turn grey, is insensitive to dirt and resistant to household and swimming pool cleaners. Colour changes cannot be ruled out with intensely coloured substances such as coffee, tea, fruit juices, etc.

Chemical resistance is achieved at temperatures between +18°C and +20°C after approx. 7 days.

Chemical resistance according to AQS

Resistant to:

Waste water*

Formic acid <3%

Ammonia, concentrated

Calcium hydroxide, saturated

Acetic acid 10%

Ethylene glycol

Formalin solution 3%

Glycerine

Household cleaner

Potassium hydroxide, saturated

Motor vehicle petrol

Seawater

Methyl alcohol < 50%

Moor water

Sodium hydroxide solution, saturated

Vegetable fats

Phosphoric acid < 50%

Nitric acid < 10%

Hydrochloric acid < 36%

Sulphuric acid <80%

Brine

Animal fats

Hydrogen peroxide < 10%

Tartaric acid, saturated

Citric acid, saturated

Sugar solution

Temporarily resistant to:

Acetone

Acetic acid 20%

Ethyl acetate

Ethyl alcohol, conc.

Lactic acid 20%

Not compatible with:

Methylene chloride

Nitric acid 40%

* in industrial wastewater, suitability must be checked on a case-by-case basis!

Grouting

ARDEX WA white epoxy adhesive can also be used for jointing work (joint width 2–15 mm), e.g. on small areas. This means that ARDEX WA white can be emulsified with water and washed off when fresh.

However, we recommend using ARDEX WA epoxy grouting compound for grouting, as this mortar has been specially developed for grouting work in terms of its processing properties. ARDEX WA epoxy grout is easy to apply and wash off due to its lean consistency.

Please note

ARDEX sealing compounds must be used for waterproofing measures in accordance with the applicable standards for building waterproofing in their current version and in accordance with the relevant data sheets.

Hardening of the pastes during storage has no effect on the quality of ARDEX WA white epoxy adhesive.

Note

The information in our safety data sheets must be observed.

For commercial use only!



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Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Mixing ratio	Specified by the container		
Material requirement approx.	Material requirements 1.50 kg/m ² 2.70 kg/m ² 3.70 kg/m ²	Toothings (mm) 3 x 3 x 3 6 x 6 x 6 8 x 8 x 8	Condition For bonding to smooth substrates For bonding to smooth substrates For bonding to smooth substrates
Fresh weight approx.	1,50 kg/l		

Application properties

Processing time approx.	60 Minute(s)
Insertion time (EN 1346) approx.	30 Minutes
Correction time approx.	30 Minutes
Can be walked on after approx.	12 Hours with sufficient hardening
Application Ambient conditions	+20°C

Mechanical properties

Adhesive tensile strength approx.	Ambient condition Dry, wet	Bond strength 2.5 N/mm ²	Time After 28 days
Bending tensile strength approx.	Time After 1 day After 28 days	Bending tensile strength approx. 30 N/mm ² 38 N/mm ²	
Compressive strength approx.	Time After 1 day After 28 days	Compressive strength of approx. 43 N/mm ² 57 N/mm ²	

Product details

Tested according to DIN EN 12004	R2 T	
Labelling according to GHS/CLP	Labelling according to GHS/CLP See relevant safety data sheet See relevant safety data sheet	Component Resin Hardener
Self-service regulation	2	
Labelling according to ADR	Component Resin Hardener	Labelling according to ADR See relevant safety data sheet See relevant safety data sheet
GISCODE	RE1 = Epoxy resin products, solvent-free, sensitising	
Packaging	Bucket with 3 kg ARDEX WA white base paste, insert can with 1 kg ARDEX WA white hardener	
Storage	Can be stored in dry rooms for approx. 18 months in the original sealed container. Store buckets upright, do not tip. Setting of the pastes during storage has no effect on the quality of ARDEX WA.	

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EN 12004:2007+A1:2012

44513 ARDEX WA Adhesive white, EN 12004:R2T

Improved reaction resin adhesive with reduced slip for
internal and external tiling

Fire class:	E
Bond strength	
Initial shear adhesion strength:	$\geq 2.0 \text{ N/mm}^2$
Durability of bond strength	
Shear adhesion strength after thermal shock:	$\geq 2.0 \text{ N/mm}^2$
Shear adhesion strength after water immersion:	$\geq 2.0 \text{ N/mm}^2$
Release of dangerous substances:	NPD