



ARDEX WA

Epoxide Adhesive

- Ideal for use in wet areas, including swimming pools
- Use as a grout for joint widths 2-12mm - easy to apply and clean off
- For internal and external applications
- Use where high standards of hygiene, chemical resistance and cleanliness are required
- Waterproof and frost resistant
- Suitable for walls and floors
- Solvent free



DESCRIPTION

The TS EN 12004 R2 T designation for ARDEX WA classifies the adhesive as an 'improved reaction resin adhesive with additional characteristics and reduced slip'. ARDEX WA is a solvent free, epoxide resin-based thin bed adhesive and grouting compound, for use where chemical resistance is required or where cement-based grouts are inappropriate. ARDEX WA is suitable for fixing and grouting all types of ceramic tiles, glass and ceramic mosaics in internal and external situations. When fully cured, the ARDEX WA mortar provides a decorative, waterproof, weather and frost resistant joint from 2-12mm wide that is chemically resistant.

MIXING

Thoroughly mix the Hardener A into the Primary Paste W until a uniform mortar is produced. The use of a propeller type stirrer in a slow speed drill is advantageous. The ARDEX WA mortar is ready for immediate use and has a working time of approximately 85 minutes at 20°C. This is reduced at higher temperatures and extended at lower temperatures. At high temperatures it is recommended that the mortar is spread out immediately after mixing as self-heating in the container will reduce the working time. Apply at temperatures above 10°C.

FIXING TECHNIQUE

The surface being adhered to must be dry, sound, free of dust, contamination and other barrier materials. Suitable surfaces include concrete, cement/sand renders and screeds, rigidly fixed plywood, terrazzo and other building materials. In doubtful cases apply a test area to check adhesion.

NOTE: ARDEX WA epoxide mortar is suitable for fixing wall and floor tiles or mosaics. White ARDEX WA is recommended where glass/translucent tiles or mosaics are being fixed or where thin tiles or mosaics are to be grouted with white ARDEX WA. Where chemical spillage may occur ARDEX WA grey is recommended.

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ARDEX GmbH Friedrich-Ebert-Str. 45 D-58453 Witten / Germany 04	
60401 EN 12004:2007+A1:2012 ARDEX WA Reaction Resin Adhesive EN 12004: R2 T	
Initial tensile adhesion strength	: ≥ 2,0 N/mm ²
Tensile adhesion strength after water immersion	: ≥ 2,0 N/mm ²
Tensile adhesion strength after heat aging	: ≥ 2,0 N/mm ²
Open time (after not less than 30 minutes)	: ≥ 0,5 N/mm ²
Slip	: ≤ 0.5 mm
Fire Class	: E



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When fixing tiles, mosaics, etc. the ARDEX WA mortar is spread over the surface with a trowel and combed with a notched trowel to give a ribbed mortar bed (use a 5mm square toothed and notched pattern for tiles and a 3mm square toothed and notched pattern for mosaics). The tiles are pressed into the ribbed mortar and thoroughly bedded in using the appropriate technique to ensure good contact throughout. Once bedded, the tiles can be adjusted within the working time of the mortar. Tiles can be grouted after 12 hours at 20°C.

GROUTING

Using a suitable squeegee, work the mortar into the dry joints, ensuring they are completely filled. The use of a good rubber backed trowel/squeegee removes virtually all excess mortar from the surface of the tiles. Any remaining material can be cleaned off within the working time using a Scotchbrite® pad with a little water and applying gentle pressure, working in circular movements to emulsify the residues on the tile face. Carefully remove the resulting ARDEX WA slurry with a squeezed out sponge, wiping the tile surface once before rinsing again in clean water. Any final traces may be removed later the same working day using a further application of the Scotchbrite® pad and sponging off with clean water. Use the white Scotchbrite® pad for ARDEX WA white and the blue Scotchbrite® pad for ARDEX WA grey.

NOTE: DO NOT LEAVE ANY TRACES OF SURPLUS MATERIALS ON THE FACE OF THE TILES AS CLEANING OFF AT A LATER DATE WILL BE IMPOSSIBLE.

NOTE: Certain types of tile may be prone to surface discoloration or scratching when using this grout, e.g. some made of natural stone and some absorbent, textured or soft glazed ceramic tiles. If in doubt carry out a trial application. Information on natural stone products may be found in the ARDEX natural stone tiling guide. Tools should be cleaned before the mortar has hardened using a brush and water.

USE

ARDEX WA is especially suitable for use in swimming pools, showers, bathrooms, shops, abattoirs, dairies, hospitals, hydrotherapy and spa baths, sports centres and other specialised buildings where high standards of hygiene and cleanliness are required. The hardened ARDEX WA mortar can withstand full loads after 2 days curing at normal temperatures and after 7 days it is resistant to aqueous salt solutions, chlorine water, commercial cleaning agents, alkalies as well as a wide range of dilute mineral acids. The hardened ARDEX WA mortar is resistant to normal domestic cleaning agents, swimming pool detergents, etc. Spillages such as coffee, tea, fruit juices, e.g. blackcurrant, etc., may stain the surface of the grout if not cleaned off immediately. ARDEX WA has not been tested in direct contact with food, e.g. on food preparation surfaces. ARDEX WA is however suitable for floors, walls and other surfaces in areas where food is prepared and a hygienic easily cleaned surface is required.

PRECAUTIONS

Please consult the relevant health and safety data sheet.

Recommended Mixing Paddle



Technical Data According To ARDEX Quality Standards

Mixing ratio:	3kg of A component and 1kg of B component as available in the packaging	
Weight of fresh mortar	Approx. 1,5 kg/l	
Material Requirement	Depending on the substrate and the trowel size; (approx.)	
	Trowel Size	Consumption
	3x3x3mm	1,5 kg/m ²
	6x6x6mm	2,7 kg/m ²
8x8x8mm	3,7 kg/m ²	
Working time / Pot life*:	Approx 60 minutes	
Open time*:	Approx. 80 minutes	
Fixing time*:	Approx. 60 minutes	
Walkability*:	After approx 12 hours	
Mechanical loads*:	After approx. 24 hours	
Grouting on walls*:	After 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.		
Compressive strength:	After 1 day approx. 60 N/mm ² After 28 days approx. 70 N/mm ²	
Flexural strength:	After 1 day approx. 35 N/mm ² After 28 days approx. 43 N/mm ²	
EMICODE:	EC 1 - Very low emission	
GHS/CLP classification:	Hardener: GHS 07 "Irritant", GHS 09 "Harmful to environment", Signal Word: Attention Resin: GHS 05 "Corrosive", GHS 07 "Irritant", GHS 09 "Harmful to environment", Signal Word: Danger	
GGVSEV/ADR classification:	Hardener: Class 8, UN 2735, Aminler, liquid n.o.s. Resin: Sinf 9, UN 3082, III, harmful to environment, liquid, b.b.b.	
Packaging:	4 kg bucket (3 kg of component A + 1 kg of component B)	
Storage & Shelf Life	Store in dry conditions. ARDEX WA has a storage life of not less than 12 months in the original unopened containers.	