



ARDEX WA

High Performance Epoxide Grout

- Ideal for use in wet areas, including swimming pools
- Use as a grout for joint widths 2-15mm
- Use where high standards of hygiene, chemical resistance and cleanliness are required
- Waterproof and frost resistant
- Suitable for walls and floors
- For internal and external applications
- Easy to apply and clean off
- Solvent free

DESCRIPTION

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 2-15 mm 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.

GROUTING

The use of correct tools is essential when applying ARDEX epoxide grouts. 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.

Tools should be cleaned before the mortar has hardened using a brush and water.

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, terazzo 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.

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.



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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 accordance with Commission directive 1895/2005 and as such should not be used 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

The hardener which contains trientine, 2,2- iminodiethylamine and the epoxy resin which contains bisphenol A/F-epichlorhydrin, oxirane can be irritating to the eyes and skin and may cause sensitisation by contact. They are considered harmful in contact with the skin and if swallowed. During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin during mixing and application. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream.

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice. For more information, consult the relevant health and safety data sheet.

GROUT COVERAGE

This will depend upon the tile size, joint width and depth and the Grout-Coverage Figure, which for ARDEX WA is 1.5. Use the following to estimate the approximate grout requirements for square or rectangular tiles:

Stage (all measurements in mm).

1. ADD length and breadth of tile together.
2. MULTIPLY result by joint width.
3. MULTIPLY result by joint depth.
4. MULTIPLY result by Coverage Figure (i.e. for WA, 1.5).
5. DIVIDE result by length of tile.
6. DIVIDE result by breadth of tile.

- the result is the material requirement in kg per m²

Summary:

Material required is:

$$\frac{(\text{length} + \text{breadth}) \times \text{width} \times \text{depth}}{\text{length} \times \text{breadth}} \times 1.5 = \text{kg/m}^2$$

Technical Data According To ARDEX Quality Standards

Mixing ratio specified by the packaging

Fresh mortar weight: ca.1,5 kg/l

Material requirement:

Used for grouting, for 3 mm joint width and 5mm joint depth

Tile Size (cm)	Consumption (kg/m ²)
5 x 5	approx. 0,90 kg
10 x 10	approx. 0,45 kg
11,5 x 24	approx. 0,30 kg
20 x 20	approx. 0,35 kg
30 x 30	approx. 0,30 kg

Used for fixing: Assuming a smooth substrate

3x3x3mm trowel size approx 1,5 kg/m²

6x6x6mm trowel size approx 2,7 kg/m²

8x8x8mm trowel size approx 3,7 kg/m²

Working time / Pot Life *: approx. 60 minutes

Open time *: approx. 30 minutes

Fixing time *: approx. 30 minutes

Walkability *: approx 12 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.

Tensile adhesion strength: After 28 days of dry storage higher than 2,5 N/mm²

Compressive strength: After 1 day 60 N/mm²
After 28 days 70 N/mm²

Flexural strength: After 1 day 30 N/mm²
After 28 days 45 N/mm²

EMICODE: EC 1 Plus - Very low emission

GHS/CLP classification:

Resin: GHS 09 "Hazardous to the aquatic environment".

GHS 07 "Irritant", Signal Word: Warning

Hardener: GHS 05 "Corrosive", GHS 07 "Irritant",

GHS 08 "Health Hazard". Signal Word: Dangerous

GGVSEV/ADR classification:

Resin: Class 9, UN 3082, Environmentally hazardous, liquid n.o.s.

Hardener: Class 8, UN 2735, Amins, liquid n.o.s.

Packaging 4 kg bucket contains
3,0 kg resin and 1 kg hardener

Storage and Shelf Life Store in dry conditions. ARDEX WA has a storage life of not less than 12 months in the original unopened containers.

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RESISTANCE TO CHEMICALS IN ACCORDANCE WITH ARDEX QUALITY STANDARDS

Resistant to:

Moorland water
All-purpose cleaners, pure
Sodium hydroxide, saturated
Tartaric acid, saturated
Potassium hydroxid, saturated
Citric acid, saturated
Hallium Hydroxide, saturated
Chromic acid 5%
Lactic acid
Phosphoric acid, <50%
Nitric Acid (<10%)
Hydrochloric Acid (<36%)
Hydrofluoric Acid (1%)
Sulfuric Acid (<80%)
Ethylene Glycol
Vegetable Oils
Formhidalin solution (3%)
Saltwater
Glycerine
Animal Fats,
Hydrogen peroxide (<10%)
Heating oil
Vehicle Gasoline
Motor Oil
Sugar solutions

Short-term resistance to:

Formic acid, 1%
Acetic acid, 15%
Lactic acid, 20%
Nitric acid, 40%
Hydrofluoric acid, 5%
Methyl alcohol, 50%
Ethyl alcohol (Concentrate)

Not resistant to:

Acetone,
Ethyl Acetate
Formic Acid, 3%
Hydrofluoric acid (>5%)
Butanone (MEK)
Meythlene chloride
Chloroform
Lactic acid (>20%)
Acetic acid (10%)
Nitric Acid (Concentrate)

Recommended mixing paddles





YAPIDAKİ GÖRÜNMEZ GÜÇ