



ARDEX WA

Easy to Use Epoxy Grout and Adhesive

Exceptionally easy to apply and clean off

Suitable for use in wet areas, superior protection against mould and dirt

Ideal for immersed conditions, such as swimming pools and spa's

For use in joint widths from 2 - 15mm

Use where high standards of hygiene, chemical resistance and cleanliness are required

Water and frost resistant

Solvent free

Can be used as a tile adhesive

Suitable for wall and floor applications

For internal and external use



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ARDEX WA

Easy to Use Epoxy Grout and Adhesive

DESCRIPTION

ARDEX WA is a solvent free, epoxide resin-based grouting compound and thin bed adhesive, 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 waterproof, weather and frost resistant joint from 2-15mm wide that is chemically resistant.

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. ARDEX WA is resistant to aqueous salt solutions, swimming pool chemicals and sanitisers, chlorine water, commercial and domestic cleaning agents, alkalies as well as a wide range of dilute mineral acids.

FOR GROUTING (TILE TYPES)

All ceramic tiles, porcelain, terrazzo, slate, quarry tiles, glass or ceramic mosaics and moisture insensitive natural stones.

PREPARATION

Ensure joints are dry, clean and free from dust, excess adhesive and bedding mortar. Do not grout until the adhesive has set firmly. All 'spacers' must be removed from joints.

Prior to grouting, it is advisable to check ease of cleaning with tiles that have a textured or matt surface.

MIXING

The mixing ratio is 3:1 (Resin:Hardener) by weight or 3.5:1 (Resin:Hardener) by volume. Pour the 1kg container of Hardener A into the 3kg container of Primary Paste W (Resin) and then mix thoroughly 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 pot life of approximately 80 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 pot life. Apply at temperatures above 10°C.

APPLICATION

Work grout into the joints using a rubber backed trowel/squeegee. Compact the grout firmly into the joints ensuring they are completely filled, minimising the amount left on the tile surface. Allow the grout to firm up in the joint before clean-up. 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 scourer 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 diagonally once before rinsing again in clean water. Any final traces may be removed later the same working day or the next day using a further application of the scourer pad and sponging off with clean water.

Ensure all cleaning off is completed before the grout fully dries on the tile face, otherwise difficulties cleaning off at a later date will be experienced. All tools should be cleaned with water immediately after use.

DRYING TIME

ARDEX WA can be walked on after 12 hours at 23°C and 50% relative humidity. Allow longer for lower temperatures.

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. See the table of chemical resistance for further information. The hardened ARDEX WA mortar is resistant to normal domestic cleaning agents, swimming pool chemicals and sanitisers, etc.

COVERAGE

Coverage will vary according to tile size, joint width and depth, as well as the method of application and on site conditions. Allow an additional 15 – 20% for wastage.

Tile Size (mm)			Coverage in kg/m ²	
			Joint Width	
Length	Width	Depth	3mm	5mm
50	50	5	0.9	1.5
100	100	5	0.45	0.75
150	150	5	0.3	0.5
300	300	5	0.15	0.25

PACKAGING

ARDEX WA is packed in pre-gauged plastic containers – net weight 4kg. The Primary Paste W (Resin) is in the larger container with room to mix in the Hardener A from the smaller container.

SHELF LIFE

ARDEX WA has a shelf life of not less than 12 months when stored in the original, unopened packaging, in a dry place at 23°C and 50% relative humidity.

Pay attention to the following:

Certain types of tile may be prone to surface discoloration or scratching, e.g. some moisture sensitive natural stones or tiles with absorbent or textured surfaces. Porous face tiles e.g. terracotta, should be sealed prior to grouting to prevent staining. If in doubt carry out a trial application.

Spillages such as coffee, tea, fruit juices, e.g. blackcurrant, etc., may stain the surface of the grout if long term contact occurs.

In swimming pool applications, colours may bleach over time. Full cure and ready for chemicals after 7 days.

For expansion or movement joints, use ARDEX silicone sealant.

Not suitable for use in areas subject to long term contact with high concentrations of chicken fat.

SAFETY PRECAUTIONS

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice; wear suitable gloves and eye protection and keep the product out of the reach of children. Avoid generation of airborne dust during mixing, use only in well ventilated areas and wear appropriate respiratory equipment to avoid breathing vapour and fumes. If swallowed do not induce vomiting, give a glass of water to rinse mouth, then as much water as the patient can drink and contact a doctor. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with warm soapy water.

ARDEX WA Hardener A is considered a corrosive material under UN 2735 Corrosive liquid N.O.S Packaging Group III Hazchem 2X. Causes burns. Harmful by inhalation and if swallowed. May cause sensitisation from inhalation and skin contact. Serious risk of damage to the eyes.

ARDEX WA Resin W is considered an environmentally hazardous substance under UN 3082, Environmentally Hazardous Substance N.O.S Packaging Group III Hazchem 3Z.

For further material safety data, consult the latest Material Safety Data Sheet.

CHEMICAL RESISTANCE

Chemical Reagents	Short Term Resistance	Resistant
ACIDIC		
Sulphuric acid	R	R (80%)
Nitric acid	R (40%)	R (10%)
Hydrochloric acid	R	R (36%)
Formic acid	R (5%)	R (0.5%)
Acetic acid	R (10%)	R (2%)
Phosphoric acid	R	R (50%)
Tartaric acid	R	R (sat.sol)
Citric acid	R	R (sat.sol)
Lactic acid	R (10%)	R (3%)

ALKALINE

Sodium Hydroxide	R	R (sat.sol)
Ammonia concentrated	R	R
Hydrogen Peroxide	R	R (10%)

SOLVENTS

Petrol	R	R
Ethanol	R	R (50%)
Diesel Oil	R	R
White Spirits	R	R

MISCELLANEOUS

Water (distilled, mineral, sea)	R	R
Wine	R	R
Sugar	R	R
Bleach	R	R
Pool Chlorine	R	R

Resistant - defined as no adverse effect on the hardness and scratch resistance after 7 days contact and no noticeable effect after 3 months contact.

Short Term Resistance - defined as no noticeable adverse effect on hardness and scratch resistance after 7 days contact.

R = Recommended (up to % concentration)

The above is intended as a guide only. The guide is based on chemical resistance. In some cases slight discolouration may occur. Contact ARDEX if other reagents are encountered.

TECHNICAL DATA

Colour: Grey or White
Mixing Ratio: Resin:Hardener
= 3:1 by weight
= 3.5:1 by volume

Application Properties at 23°C and 50% RH

Pot Life: 80 minutes
Drying Time: Approx 12 hours
Underfloor Heating: Yes
Application Temperature: 10°C or above

Mechanical Properties (AS 4992)

Compressive strength,

1 day: 60 MPa

28 days: 70 MPa

Flexural strength,

1 day: 30 MPa

28 days: 45 Mpa

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DISCLAIMER

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