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PRODUCT DATA SHEET

# ARDEX EG 8 PLUS

## Easy to Apply and Clean Epoxy Tile Grout and Adhesive

### Features

- Combines the chemical resistance of epoxy grouts with the enhanced application properties of cement based grouts
- Can be cleaned off in as little as 15 minutes and up to 60 minutes after application
- Easier to use than traditional epoxy grouts with no special application tools required
- Resists chemical attack, and is waterproof and abrasion resistant
- Hygienic and durable for a reduced maintenance schedule
- Suitable for internal and external wall and floor applications, including swimming pools
- Suitable for use with underfloor heating
- Awarded EC1 R PLUS EMICODE label for achieving the lowest possible emission limits
- Suitable for joints 1-10mm wide
- Available in White, Grey, Silver Grey, Anthracite, and Bahama Beige



Reg No. FM 01207

EMS 565427

OHS 628374

ARDEX UK LIMITED  
Homefield Road, Haverhill, Suffolk CB9 8QP UK.  
Telephone: +44 (0)1440 714939  
Fax: +44 (0)1440 716640  
Email: [technical\\_admin@ardex.co.uk](mailto:technical_admin@ardex.co.uk)  
ARDEX online: [www.ardex.co.uk](http://www.ardex.co.uk)

# ARDEX EG 8 PLUS

## Easy to Apply and Clean Epoxy Tile Grout and Adhesive

### DESCRIPTION

ARDEX EG 8 PLUS combines the performance of epoxy based grouts with the ease of application associated with cement based grouts.

ARDEX EG 8 PLUS has high chemical and abrasions resistance, and being impervious it also produces hygienic joints that require minimal maintenance. Unlike traditional epoxy grouts however, it is easy to apply and clean off, requiring no special tools and cleaning off up to 60 minutes after application.

The BS EN 13888 classification for ARDEX EG 8 PLUS is RG for a "Reaction resin grout". The BS EN 12004 adhesive classification is R2 for a "Reaction resin adhesive".

ARDEX EG 8 PLUS will prevent water penetrating into a cement based adhesive bed of glass tiles, stopping unsightly moisture staining showing through.

The hardened ARDEX EG 8 PLUS mortar can withstand full loads after 12 hours curing at normal temperatures and is resistant to aqueous salt solutions, chlorine water, commercial cleaning agents, alkalis, as well as a wide range of dilute mineral acids. Please refer to the table overleaf for a full list of chemicals. Full chemical resistance is achieved after 7 days at normal temperatures.

### USE

ARDEX EG 8 PLUS is particularly suitable for use in swimming pools, showers, bathrooms, shops, hospitals, hydrotherapy and spa baths, sports centres and other buildings where high standards of hygiene and cleanliness are required.

ARDEX EG 8 PLUS can also be used as a floor tile / mosaic wall tile adhesive in areas where a chemically resistant adhesive bed is required.

**NOTE:** Areas subject to extreme high pressure washing, such as abattoirs, should be grouted with ARDEX WA.

### PREPARATION

Before grouting, ensure the tiles are firmly fixed and that the tile faces and joints are clean and free of dust, excess adhesive or standing water.

Before tile fixing, ensure the tile background meets the requirements of BS 5385; is clean, sound, 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.

### MIXING

Note: Wear suitable eye/face protection and gloves when mixing. Avoid contact with the skin. See precautions section below.

Add the complete contents of the hardener container into the paste container.

Thoroughly mix the paste and hardener using a propeller type stirrer in a slow speed drill until a uniform mortar is produced.

Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue (back mixing) and then poured back into the larger mixing vessel and re-mixed for 30 seconds.

**NOTE:** Back mixing ensures that no unreacted material is present and that the packaging can be safely disposed of as non-hazardous waste.

ARDEX EG 8 PLUS is ready for immediate use and has a working time of approximately 60 minutes at 20°C. The working time is reduced at higher temperatures and extended at lower 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 and no higher than 30°C.

### GROUTING APPLICATION

For joint widths between 1-10mm.

ARDEX EG 8 PLUS is applied into the dry joint using a suitable grouting squeegee/float. It is important to select a squeegee that is flexible enough to maintain good surface contact with the profile of the tile to aid removal of the residues.

Excess grout should be removed from the surface of the tile with the squeegee as work proceeds. After removing the excess, apply a fine mist of clean water from a suitable spray bottle to the surface of the tiles to emulsify/soften the grout residues prior to cleaning down.

The grout should be cleaned off the face of the tiles when the grout is slightly hardened in the joints, which can be as little as 15 minutes in good conditions. This time is affected by the ambient conditions, porosity of the tiles and the width of the joints. However, cleaning can commence as soon as the grout surface is firm enough to resist damage and excavation of the joint during the cleaning process. Cleaning must be completed by 60 minutes after grouting.

Using a clean, firm, grouting sponge, such as the ARDEX sponge, emulsify the residues using a circular motion, re-misting with water if required. On wider joints >3mm, smoothing of the joints using a clean, slightly damp sponge edge is recommended to create a smooth profile. Then wipe off the remaining residues using a clean face of a slightly damp sponge running diagonally across the joints. Clean the sponge frequently and also ensure the wash water is frequently changed to avoid transferring residue back to the surface.

Textured or profiled non-slip tiles may require the use of a Scotchbrite pad to emulsify the residues. For modern "sand-paper texture" non-slip tiles used in swimming pools and other wet areas we recommend the manufacturer also be consulted for additional cleaning guidelines.

For contrasting colours (grouts/tiles) and textured tiles, a final clean using a proprietary epoxy grout remover may be required to remove any traces of emulsified residues.

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. Consult BS 5385, or the tile manufacturer/distributor for further information and advice. If in doubt, carry out a trial application.

Where acid based cleaning products are to be used on the hardened grout, we recommend that the product is first tested on the wetted grout before application, to ascertain the resistance of the colour/grout.

Thorough rinsing off is required to remove any residues of the acidic cleaner to prevent discolouration/damage to the grouted joint.

ARDEX EG 8 PLUS White may show marginal yellowing if subjected to UV light.

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

### GROUT COVERAGE

This will depend upon the tile size, and joint width and depth. The grout coverage figure for ARDEX EG 8 PLUS is 1.7.

Use the following to estimate the approximate grout requirements for square or rectangular tiles (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 (1.7 for ARDEX EG 8 PLUS).
  5. DIVIDE result by length of tile.
  6. DIVIDE result by breadth of tile.
- The result is the material requirement in kg per m<sup>2</sup>.

Highly textured tile surfaces may require 0.1 - 0.2kg/m<sup>2</sup> of extra grout.

Quick and easy grout coverage can be calculated using the grout calculator available online at: [www.ardex.co.uk](http://www.ardex.co.uk)

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### FIXING APPLICATION

The surface being adhered to must be dry, dimensionally stable, sound and free of dust, contamination and other barriers to adhesion. Suitable tiling surfaces include concrete, cement/sand renders and screeds, Terrazzo and other building materials. Where doubt exists to the suitability of the background apply a test area to check adhesion.

**NOTE:** ARDEX EG 8 PLUS is suitable for fixing wall mosaics, generally no larger than 25mm x 25mm. ARDEX EG 8 PLUS White is recommended where glass/ translucent tiles or mosaics are being fixed, or where thin tiles or mosaics are to be grouted with white ARDEX EG 8 PLUS.

When fixing tiles, mosaics, etc. spread the ARDEX EG 8 PLUS over the surface with a trowel and comb with a suitable notched trowel to give a ribbed mortar bed.

Press the tiles into the ribbed adhesive layer and thoroughly bed in using the appropriate technique to ensure good contact throughout. Once bedded, the tiles can be adjusted up to 30 minutes after fixing; tiles can be grouted 12 hours after fixing at 20°C.

### FIXING COVERAGE

A 4kg container of ARDEX EG 8 PLUS will yield approximately 2.35 litres of material, equivalent to approximately 2.35m<sup>2</sup> at 1mm bed thickness (for example using a 3mm x 3mm mosaic square notch trowel). Material requirement is approximately 1.7kg of material per m<sup>2</sup> per mm bed thickness. The actual coverage achieved in practice will depend on the back profile of the tiles, notched trowel and technique used to bed the tiles.

### PACKAGING

ARDEX EG 8 PLUS is supplied in pre-gauged containers. The paste is in the larger container with adequate space to mix in the hardener from the smaller container. A 4kg unit consists of 3.2kg primary paste and 0.8kg of hardener.

### STORAGE AND SHELF LIFE

Store in dry conditions. ARDEX EG 8 PLUS has a storage life of not less than 12 months in the original unopened containers.

### PRECAUTIONS

ARDEX EG 8 PLUS can be irritating to the eyes, respiratory system and skin, and may cause sensitisation by contact. Consult the relevant health and safety data sheets for full information. In case of accidents seek medical advice.

### TECHNICAL DATA

In accordance with ARDEX quality standards.

Mixing ratio:	specified by the packaging
Fresh mortar weight: ca.	1.7kg/l
Working time (20°C):	approximately 60 minutes
Open time (EN 1346):	approximately 30 minutes
Adjustment time:	approximately 30 minutes

Walkability (20°C):

After sufficient drying time, approximately 12 hours at room temperature.

### TENSILE ADHESION STRENGTH

After 28 days dry, wet: more than 1N/mm<sup>2</sup>

### COMPRESSIVE STRENGTH

After 1 day:	approximately 55N/mm <sup>2</sup>
After 28 days:	approximately 70N/mm <sup>2</sup>

### TENSILE BEDDING STRENGTH

After 1 day:	approximately 30N/mm <sup>2</sup>
After 28 days:	approximately

### RESISTANCE TO CHEMICALS IN ACCORDANCE WITH ARDEX QUALITY STANDARDS

#### Resistant to:

General purpose cleaners  
Formic acid 1%\*  
Concentrated Ammonia solution Cilit Bang DanKlorix (green)  
Acetic acid 5%  
Ethyl alcohol  
Ethylene glycol  
Fixative  
Hydrofluoric acid 1%  
Hydrofluoric acid 5%  
Formalin solution  
Glycerine  
Urea solution  
Potassium hydroxide solution Petrol  
Methyl alcohol 50%  
Lactic acid 5%  
Lactic acid 10%  
Lactic acid 20%  
Soft water  
Motor oil  
Sodium hydroxide  
Vegetable fat  
Phosphoric acid 10%  
Nitric acid 10%  
Hydrochloric acid 36%  
Sulphuric acid 80%  
Animal fats  
Phosphoric acid 40%  
Hydrogen peroxide 8%  
Tartaric acid saturated solution  
Citric acid  
Treacle  
\*for industrial effluent the suitability should be checked in each case

### Short-term resistance to:

Formic acid 3%  
Chloroform Acetic acid 10%  
Nitric acid 40%

### Not resistant to:

Acetone  
Acetic acid 20%  
Methyl chloride

**NOTE:** For the latest technical or health and safety information on this product, consult the current technical or health and safety datasheet online at [www.ardex.co.uk](http://www.ardex.co.uk)

**NOTE:** The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations.

### TECHNICAL ADVICE HELPLINE

01440 714939  
ARDEX online  
[www.ardex.co.uk](http://www.ardex.co.uk)