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PRODUCT DATA SHEET

ARDEX EG 8

Cement/Epoxy Hybrid Grout and Adhesive

Features

- Combines the chemical resistance of epoxy grouts, with the application properties of cement based grouts
- Ideal for use in swimming pools and other areas where chemical resistance and hygienic joints are required
- For joint widths 2-12mm
- Internal and external areas, walls and floors
- Available in Grey or White
- Solvent Free

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GROUT COVERAGE
This will depend upon the tile size, joint width and depth and the Grout Coverage Figure, which for ARDEX EG 8 is 1.7. Highly textured tile surfaces may require between 0.1 and 0.2kg/m^2 extra grout.

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 EG 8, 1.7).
5. DIVIDE result by length of tile.
6. DIVIDE result by breadth of tile.

- the result is the material requirement in kg per m^2.

Quick and easy grout coverage can be calculated using the cement and epoxy-based grout calculator at ARDEX online: **www.ardex.co.uk/calculator.asp**

Summary

Material required is:-

$$\frac{(\text{length} + \text{breadth}) \times \text{width} \times \text{depth}}{\text{length} \times \text{breadth}} \times 1.7 = \text{kg/m}^2$$

Example

Tiles 150mm x 150mm x 5mm; joints of 5mm:-

$$\frac{(150 + 150) \times 5 \times 5}{150 \times 150} \times 1.7 = 0.56\text{kg/m}^2$$

- thus one 4kg unit of ARDEX EG 8 will grout up to 7.0m^2 of tiling.
These figures will differ when using other tile joint dimensions:-

DESCRIPTION
ARDEX EG 8 grout combines the technical performance properties of an epoxy based grout with the ease of application associated with cement based grouts, with no special tools required. Highly textured tiles may benefit from the use of a hard rubber expoxy squeegee.

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

USE
ARDEX EG 8 is especially suitable for use in swimming pools, showers, bathrooms, shops, hospitals, hydrotherapy and spa baths, sports centres and other specialised buildings where high standards of hygiene and cleanliness are required. ARDEX EG 8 can also be used as a floor tile/mosaic wall tile adhesive in areas where a chemically resistant adhesive bed is required.

MIXING
Thoroughly mix the powder and liquid hardener until a uniform mortar is produced. The use of a propeller type stirrer in a slow speed drill is advantageous. Leave the mixed mortar for one minute and then remix for 30 seconds to maintain the working time. The ARDEX EG 8 mortar is ready for immediate use and has a working time of approximately 45 minutes at 20°C. This 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 15°C. Add the complete contents of the hardener container into the container of powder. Mix together then transfer some of the mix back into the hardener container to disperse any hardener not transferred initially.

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 EG 8 is suitable for fixing wall mosaics. White ARDEX EG 8 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. Where chemical spillage may occur ARDEX EG 8 grey is recommended.

When fixing tiles, mosaics, etc. the ARDEX EG 8 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
For joint widths 2-12mm. ARDEX EG8 is applied into the dry joint using a suitable grouting squeegee/float as per traditional cement based grouts. Excess grout should be removed as work proceeds. The grout should be washed off the face of the tiles when slightly hardened in the joints after, approximately 15-45 minutes depending on the porosity of the tiles. To clean the tile surface use cold water and a suitable sponge. Any residues left on the surface of the tiles can be removed with a sponge and water the following day.

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. Consult BS 5385-1: 2009 for further information or consult the tile manufacturer/distributor for advice. 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.

FIXING COVERAGE
1.7kg/mm/m^2.

PACKAGING
4kg units of ARDEX EG 8 are supplied in pre-gauged containers, the ARDEX powder is in the larger container with room to mix in the ARDEX Liquid Hardener from the smaller container.

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

TECHNICAL DATA
according to ARDEX quality standards

Mixing ratio:	Specified by the packing
Fresh mortar weight:	ca. 1.7 kg/l
Working time (20°C):	Approx. 45 minutes
Opentime (EN 1346):	Approx. 30 minutes
Adjusting time:	Approx. 30 minutes
Walkability (20 °C):	After sufficient drying
	Approx. 2 days

Tensile adhesion strength:

After 28 days dry, wet	More than 1 N/mm^2

Compressive strength:

After 1 day	Approx. 19 N/mm^2
After 28 days	Approx. 33 N/mm^2

Tensile bending strength:

After 1 day	Approx. 4 N/mm^2
After 28 days	Approx. 6 N/mm^2

RESISTANCE TO CHEMICALS ACC. TO AQS
Resistant to:

Acetone	Formic acid
Concentr. Ammonia	Saturated Calcium Hydroxide
<5% Chromic Acid	Fixing Solution (photog)
Ethylene Glycol	Ethyl Acetat
Brackish Water	<3% Formalin Solution
<1% Hydrofluoric Acid	Glycerine
Household Detergent	Diesel
Saturated Caustic Soda	Petrol
Sea Water	<50% Methyl Alcohol
<5% Lactic Acid	Moor Water
Saturated Sodium Hydroxide	Vegetable Fats
<5% Phosphoric Acid	<5% Nitric Acid
<5% Hydrochloric Acid	<5% Sulphuric Acid
Brine	Animal Fats
<8% Hydrogen Perloxide	

Short-term resistance to:

Butanone (MEK)	Staturated Potash Solution
3% Acetic Acid	10% Lactic Acid
2% Nitric Acid	80 % Hydrochloric Acid
20% Phosphoric Acid	Saturated Tartaric Acid
Citric Acid	

Not resistant to:

5% Formic Acid	Chloroform
10% Acetic Acid	Ethyl Acetate
5% Hydrofluoric Acid	45% Phosphoric Acid
Methylene Chloride	Conncentrated Nitric Acid
36% Hydrochloric Acid	

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

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 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.

TECHNICAL ADVICE HELPLINE:
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