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PRODUCT DATA SHEET

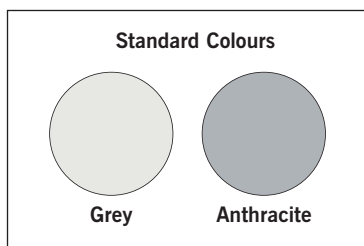
ARDEX GK

Rapid Setting and Hardening Grout



Features

- Very hard wearing
- Rapid hardening - walkable in approximately 3 hours
- Ideal for commercial and domestic environments such as swimming pools, showers and kitchens
- For internal or external applications
- For tile joint 3mm+ wide
- Ideally suited to high traffic areas e.g. shopping malls



Due to printing process, colours can only be approximate



Reg No. FM 01207

EMS 565427

OHS 628374

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ARDEX GK

Rapid Setting and Hardening Grout

DESCRIPTION

ARDEX GK is a cement-based grout for floor and wall tiling, available in Grey or Anthracite. The BS EN 13888 classification for ARDEX GK is CG2A, an "improved cementitious grout with additional characteristic of high abrasion resistance". ARDEX GK has rapid setting and hardening properties and is particularly suitable for grouting ceramic tile joints that have to be exposed to foot traffic within a few hours.

USE

ARDEX GK is suitable for use with ceramic and natural stone tiles, extruded tiles, brick pavers and floor tiles with ribbed or studded surfaces. ARDEX GK can be used for joint widths from 3mm to 20mm and is suitable for internal and external applications.

ARDEX GK can be used with ARDEX E 101 Grout Improver Admix to produce a mortar with elastic and water repellent properties as well as improving adhesion (see ARDEX E 101 Technical Datasheet for more information). For heated subfloors and porcelain tiles, the grout should include ARDEX E 101. Alternatively, ARDEX-FLEX FL Rapid Setting Flexible Tile Grout for Wide Joints should be considered.

Where chemical spillages or corrosive liquids are likely to be in contact with the tile joints, use either ARDEX WA Epoxide Adhesive and Grout or ARDEX EG 8 PLUS Epoxide Adhesive and Grout.

PREPARATION

Ensure tiles are firmly fixed and joints are clean and free of dust, excess adhesive and bedding mortar, etc.

MIX PROPORTIONS

The mixing proportions by volume are approximately:-
1 part water : 4 parts ARDEX GK powder
11kg ARDEX GK requires approximately 2 litres of clean water.

MIXING

To the required amount of clean water in a clean mixing container, add the ARDEX GK powder whilst stirring thoroughly to obtain a creamy, easily worked mortar. The mixed grout has a working time of about 30 minutes at 20°C. Higher temperatures shorten the working time.

NOTE: Some ceramic, vitrified, porcelain and natural stone tiles, or tiles with textured, matt glazed or porous surfaces, may be susceptible to surface discolouration during grouting. A trial application should be carried out to ascertain if discolouration is likely. For natural stones that may be susceptible to water staining, ARDEX MG Tile Grout should be considered.

Where necessary, particularly when using intense grout colours, apply a protective treatment to the tile face to ensure the grout is not retained in the surface porosity/texture of the tile.

Guidance on the application of coloured grouts can be found in clause 7.3.4 of BS 5385: Part 1: 2009. If in any doubt, please contact the tile manufacturer or distributor for information and advice.

APPLICATION

Using a rubber squeegee or rubber backed trowel, work the mixed grout thoroughly into the joints ensuring they are completely filled. Excess grout should be removed as work proceeds, any residues left on the tile face can be removed by wiping off with a damp sponge between 30 minutes and 1 hour after application. The use of a fine mist from a suitable spray bottle will help in emulsifying the grout residues on the tile surface. Any dry film remaining on the tile surface can easily be removed by polishing off with a dry cloth when the grout has hardened in the joints.

Apply at temperatures above 5°C.

PACKAGING

ARDEX GK is packed in paper sacks incorporating a polyethylene liner - net weight 11kg.

STORAGE AND SHELF LIFE

ARDEX GK must be stored in unopened packaging, clear of the ground, in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

PRECAUTIONS

ARDEX GK contains more than 20% Portland cement and is therefore classified as irritating to eyes and skin. For this reason the following precautions should be observed:-
Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

For further information, consult the relevant health and safety datasheet.

COVERAGE

This will depend upon the tile size, joint width and depth and the Grout Coverage Figure, which for ARDEX GK is 1.8.

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 Grout Coverage Figure (i.e. for ARDEX GK, this is 1.8).
5. DIVIDE result by length of tile.
6. DIVIDE result by breadth of tile.

The result is the material requirement in kg per square metre.

Quick and easy grout coverage can be calculated using the ARDEX cement and epoxy based grout calculator online at:

www.ardex.co.uk/calculator.asp

SUMMARY

Material required is:-

$$\frac{(\text{length} + \text{breadth}) \times \text{width} \times \text{depth}}{\text{length} \times \text{breadth}} \times 1.8 = \text{kg/m}^2$$

TECHNICAL DATA

Initial Set (Vicat)	approx. 1/2 hour
Final Set (Vicat)	approx. 1 hour
Bulk density of powder	approx. 1.5kg/litre
Density of fresh mortar	approx. 2.1kg/litre

BRINELL HARDNESS

After 1 day	approx. 36 N/mm ²
After 3 days	approx. 54 N/mm ²
After 7 days	approx. 63 N/mm ²

Temperature resistance	up to 80°C
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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.

TECHNICAL ADVICE HELPLINE

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ARDEX online: www.ardex.co.uk