



CI/SfB

Yt4

NOVEMBER 2005
BUILDING DIVISION
PRODUCT DATA SHEET

ARDEX GK

Rapid Setting and Hardening Grout

Features

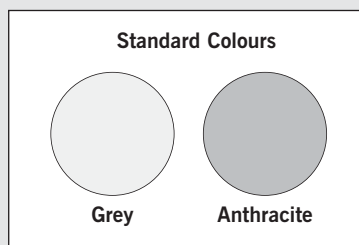
Very hard wearing

Rapid hardening, walkable in approximately 3 hours

For internal or external applications

For tile joint widths 3mm or more

Ideally suited to high traffic areas e.g. shopping malls



Due to printing process, colours can only be approximate



Reg No. FM 1207

ARDEX UK LIMITED
Homefield Road, Haverhill, Suffolk CB9 8QP UK.
Telephone: +44 (0)1440 714939
Fax: +44 (0)1440 716660
Technical Services Fax: +44 (0)1440 716640
Email: technical.services@ardex.co.uk
ARDEX online: www.ardex.co.uk

ARDEX GK

Rapid Setting and Hardening Grout

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 Coverage Figure (i.e. for GK, 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.

Summary

Material required is:-

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

Example

Tiles 240mm x 115mm x 10mm; joints of 10mm:-

$$\frac{(240 + 115) \times 10 \times 10}{240 \times 115} \times 1.8 = 2.32\text{kg/m}^2$$

— thus one 11kg bag of ARDEX GK will grout up to 4.6m² of tiling.

These figures will differ when using other tile/joint dimensions:-

Joint width	Tile size	Approximate amount of ARDEX GK powder
10mm	200 x 100 x 8mm	2.2kg/m ²
5mm	150 x 150 x 13mm	1.6kg/m ²
3mm	150 x 150 x 8mm	0.6kg/m ²
4mm	200 x 200 x 10mm	0.7kg/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

DESCRIPTION

ARDEX GK is a cement-based grout for floor and wall tiling, available in grey or anthracite. 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.

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 mortar admix to produce a mortar with elastic and water repellent properties as well as improving adhesion (see ARDEX E 101 product data sheet).

PREPARATION

Ensure tiles are firmly fixed and joints are clean, 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: Certain types of tile may be prone to surface discolouration or scratching when using this grout, e.g. some natural stone or absorbent, textured or soft glazed ceramic tiles. Consult BS 5385 : Part 1 : 1995 for further information or consult the tile manufacturer/distributor for advice. If in doubt carry out a trial application. Additional information on natural stone products may be found in our natural stone tiling guide.

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 and 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. 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 contains a reducing agent to control the level of Chromium VI when mixed prior to use. ARDEX GK must be stored in unopened packaging, clear of the ground in cool dry conditions and protected from excessive draught. If stored correctly, as detailed above, and used within 12 months of the date shown on the packaging, the activity of the reducing agent (added to control the level of soluble Chromium VI) will be maintained and this product will

contain, when mixed with water, no more than 0.0002% (2ppm) soluble Chromium VI of the total dry weight of the cement content of this product. ARDEX GK must not be used after the end of the declared storage period.

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 data sheet.

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.

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.