



CI/SfB

Yt4

JANUARY 2006
BUILDING DIVISION
PRODUCT DATA SHEET

ARDEX C 2

Wall and Floor Tile Grout

Features

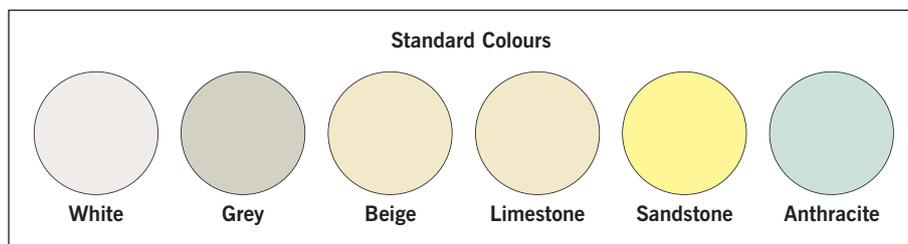
Available in grey, white, limestone, sandstone, beige and anthracite

For tile joints 2mm or more in width

Easy to apply and clean off

For use on floors and walls

For internal and external applications



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 C 2

Wall and Floor Tile Grout

COVERAGE

This will depend upon the tile size, joint width and depth and the Grout Coverage Figure, which for ARDEX C2 is 1.7.

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 C2, 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 sq. metre.

Summary

Material required is:-

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

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

Example

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

$$\frac{(240 + 115) \times 10 \times 10}{240 \times 115} \times 1.7 = 2.2\text{kg/m}^2$$

- thus one 11kg bag of ARDEX C2 will grout up to 5m² of tiling.

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

Joint Width	Tile size	Approximate Amount of ARDEX C2 Powder
8mm	300 x 300 x 10mm	1.0 kg/m ²
10mm	200 x 100 x 8mm	2.0 kg/m ²
5mm	200 x 200 x 6mm	0.5 kg/m ²
5mm	150 x 150 x 5mm	0.6 kg/m ²
2mm	108 x 108 x 4mm	0.25kg/m ²
2mm	50 x 50 x 4mm	0.6 kg/m ²

DESCRIPTION

ARDEX C2 is suitable for grouting wall or floor tile joints from 2mm to 20mm wide. The ARDEX C2 powder, when mixed with water, produces a soft, creamy, easily worked mortar with good filling properties, enabling deep joints to be filled in one operation. The hardened grout is weather resistant, unaffected by water and is suitable for internal and external use in dry or wet conditions, including swimming pools with non-aggressive water conditions. The surface of the hardened grout has a textured finish and is not impervious.

NOTE: That where chemical spillages or corrosive liquids are likely to be in contact with the tile joints, use ARDEX WA epoxide grout.

In light duty areas ARDEX E 101 mortar admix may be incorporated in the ARDEX C2 to produce a mortar with elastic and water repellent properties. This is particularly useful when grouting tiles fixed to timber, see data sheet, or when tiling domestic floors and around swimming pools.

N.B. For heavily trafficked areas, especially where the grout will be subjected to high point loads, ARDEX GK, or ideally ARDEX WA should be used in preference to ARDEX C2.

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 : 3½ parts ARDEX C2 powder

11kg ARDEX C2 requires approximately 2.2 litres and

5kg ARDEX C2 requires approximately 1 litre of water.

MIXING

To the required amount of clean water in a clean container add the powder whilst stirring thoroughly until a creamy, slump free, easily worked mortar is obtained. The mixed grout has a working time of 2 to 3 hours at 20°C. Higher temperatures shorten the working time.

NOTE: Certain types of tile may be prone to surface discoloration 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 15 minutes and 2 hours 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 C2 is packed in paper sacks incorporating a polyethylene liner - net weight 11kg or 5kg.

STORAGE AND SHELF LIFE

ARDEX C2 contains a reducing agent to control the level of Chromium VI when mixed prior to use. ARDEX C2 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 C2 must not be used after the end of the declared storage period.

PRECAUTIONS

ARDEX C2 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)	approximately 2½ hours
Final Set (Vicat)	approximately 4 hours
Bulk density of powder	approximately 1.4kg/litre
Density of fresh mortar	approximately 2.0kg/litre

Brinell hardness

after 7 days	45.0 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.