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JANUARY 2009
PRODUCT DATA SHEET

ARDEX-FLEX FS

Tile Grout

Features

Flexible tile grout with built-in admix

Water repellent and dirt resistant

Ideal for swimming pools, showers and kitchens

For tile joint widths up to 4mm wide

NEW - Now available in 32 colours - see colour selector*

Suitable for wall and floor tiling

For internal and external applications



*For a copy of the Grout Colour Selector and Coverage Guide, please call ARDEX Customer Services on 01440 714939



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ARDEX-FLEX FS

Tile Grout

DESCRIPTION

ARDEX-FLEX FS is a cement-based grouting compound with excellent flexible and water repellent properties without the addition of an admix.

The hardened grout is weather resistant and unaffected by water. It is also dirt resistant, easy to keep clean and ideal for internal or external use on both wall and floor tiling including swimming pools with non-aggressive water conditions.

The BS EN 13888 classification for ARDEX-FLEX FS is CG2, "an improved cementitious grout with additional characteristics."

ARDEX-FLEX FS is especially suited for humid and damp locations, particularly showers and kitchens. ARDEX-FLEX FS is suitable for grouting joints up to 4mm in width between tiles and mosaics of ceramic, porcelain, glass and most natural stones.

PREPARATION

Ensure the tiles are firmly fixed and the tile joints are clean, free of dust, excess bedding mortar and of adequate depth.

MIX PROPORTIONS

Mix proportions by volume are approximately:-

1 part water : 2³/₄ parts ARDEX-FLEX FS powder.

A 10kg unit of ARDEX-FLEX FS requires approximately 3 litres of water.

MIXING

Mix the required amount of water in a clean container and add the powder whilst stirring thoroughly until a creamy, easily worked mortar is obtained. The mixed grout has a working time of approximately 2¹/₂ hours at 20°C and will be walkable after approximately 5 hours. Higher temperatures will shorten and lower temperatures will extend the working time.

NOTE: Certain types of tile may be prone to surface discoloration when using this grout, e.g. some natural stone or ceramic tiles with absorbent or textured surfaces.

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 the ARDEX natural stone tiling guide, available from ARDEX Customer Services.

APPLICATION

Work the mortar into the tile joints using a rubber squeegee ensuring they are completely filled. Deep joints can be filled in one operation without the grout sagging in the joints. The mortar firms up quickly in the joints which allows for early washing down to produce a virtually flush joint, with a smooth surface by using just a wet sponge. If an area is left for more than 30 minutes prior to cleaning, the grout residues may require moistening in order to make washing off easier. Any dry film remaining on the tile face after cleaning can be easily removed by using a damp sponge once the mortar has hardened in the joints.

Apply at temperatures above 5°C.

PACKAGING

ARDEX-FLEX FS is packed in paper sacks incorporating a polyethylene liner - net weight 2.5kg or 10kg.

STORAGE AND SHELF LIFE

ARDEX-FLEX FS 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.

DISPOSAL

Dispose of waste and residue in accordance with local authority guidelines.

PRECAUTIONS

ARDEX-FLEX FS contains more than 20% portland cement and, therefore, in line with current legislation, is 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.

COVERAGE

This will depend upon the tile size, joint width and depth and the Grout Coverage Figure, which for ARDEX-FLEX FS is 1.5.

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 FS, 1.5).
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:-

$$\frac{(\text{length} + \text{breadth}) \times \text{width} \times \text{depth}}{\text{length} + \text{breadth}} \times 1.5 = \text{kg/m}^2$$

Quick and easy grout coverage can be calculated using the grout calculator at ARDEX online: www.ardex.co.uk/calculator.asp or by requesting a copy of the Grout Colour Selector and Coverage Guide from ARDEX Customer Services on 01440 714939, where we have worked out the coverage for you.

TECHNICAL DATA

Working time	approx. 2 ¹ / ₂ hours
Initial Set (Vicat)	approx. 3 hours
Final Set (Vicat)	approx. 4 hours
Bulk density of powder	approx. 1.2 kg/litre
Density of fresh mortar	approx. 1.9 kg/litre

Brinell Hardness

after 1 day	approx. 25.0 N/mm ²
after 3 days	approx. 40.0 N/mm ²
after 7 days	approx. 55.0 N/mm ²

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.