

quality tile grout

Description

Arki-Grout C is a premium grout consisting of a carefully blended mix of Portland cement, graded fillers, additives and high quality colourfast pigments. In addition, special chemicals have been added to provide a superior grout that offers ease of workability and clean-up, rapid cure, high compressive strength, low shrinkage, good bond strength and colour control for a wide range of architectural colours.

Arki-Grout C is available in two grades; sanded and un-sanded to cover all tile joint widths.

Uses

Un-sanded Arki-Grout C is used to grout all types of ceramic tile, ceramic mosaics, porcelain, slate, granite, cultured marble, dimension stone and structural glazed tile where joint width is up to 4 mm.

Sanded Arki-Grout C is normally used for grouting slate, quarry and treated terracotta tiles or where wider joints (4 – 12 mm) are required.

Advantages

- High resistance to dirt pick-up.
- Suitable for both internal and external applications.
- Just-add-water material, easy to apply.
- Safe to use, zero VOC.
- Non-dusting surface.
- For interior and exterior, vertical and horizontal installations.
- High colour fastness.
- Water resistant.
- Wide range of colours. Special colours can also be manufactured on request.
- Suitable for tropical and hot climate conditions.

Standard compliance

EN 13888: 2002 Class CG2.
ANSI A118.6, H2.4

Product working properties*

Type:	Pre-mixed cementitious powder
Mix ratio:	~4.0 litres of cold clean water per 10 kg bag
Bulk density:	1.60 kg/l (sanded) 1.55 kg/l (un-sanded)
Wet density:	1.90 kg/l (Sanded) 1.82 kg/l (un-sanded)
Pot life:	2 hours
Initial set time:	4 hours
Final Set time:	24 hours

Product performance properties*

Tensile adhesion strength (EN 1348):	> 1.9 MPa (after 28 days)
Compressive Strength (EN 12808-3):	>17 MPa (after 7 days) >23 MPa (after 28 days)
Water absorption: EN 12808-5	< 2.0 g (30 days)
ANSI A118.6	< 5 %
Shore 'D' hardness (ASTM D2240):	70 - 75 (un-sanded) 75 - 80 (sanded)

* Values are valid at ambient temperature of 23°C and at 55% relative humidity.

Directions for use

Substrate preparation

Check that all tiles are securely fixed and that the adhesive has thoroughly dried before applying any load or pressure to the tiled surface. Ensure all joints are raked clear of any excess adhesive residues to allow an even and consistent depth of grout to be applied in all areas.

Natural stone and un-glazed tiles are likely to absorption of grout fines and hence prone to surface discolouration. Therefore, apply mixed grout to a spare tile to determine whether staining is likely, and consult the tile manufacturer prior as to whether they recommend a suitable sealing compound to protect the surface.

Mixing

Arki-Grout C should be added to water in a clean container whilst mechanically stirring and mixing thoroughly to give a smooth, consistent and easily

worked mortar. Use the recommended water/powder ratio and do not add more water than is necessary as this may prolong drying and significantly reduce the compressive strength of the cured grout. Part-used grout should never be “freshened up” with later water additions, but should always be discarded once it appears to lose workability. In ideal conditions (23°C), Arki-Grout C will remain workable for about 2 hours and then reach final set within 24 hours. When grouting over a large area using several bags of grout, ensure all mixes are from the same batch and that a consistent and identical water addition is used for each mix.

Application and cleaning

Use a rubber squeegee, or smooth sponge to work the grout thoroughly and consistently into the tile joints, removing the excess as work proceeds across the tiled area. Fine grout residues can be washed away with a lightly damp cloth or sponge up to 2 hours after application, with a final clean finish being achieved using a dry cloth to polish the surface when the joints have dried and hardened.

Yield

This will depend on the tile size, joint width, joint depth (tile thickness) and the “Grout Coverage Factor”, which, for Arki-Grout C, is 1.5. The approximate grout requirements for square or rectangular tiles can be estimated by the use of the following equation considering that all measures are in (mm):

$$\text{Kg of grout / m}^2 = \frac{(\text{Tile length} + \text{Tile width}) \times \text{Joint width} \times \text{Joint depth} \times 1.5}{(\text{Tile length} \times \text{Tile width})}$$

Storage and shelf life

Arki-Grout C has a minimum shelf life of 12 months when stored in dry warehouse conditions in unopened, undamaged bags. Storage should be away from direct sunlight in ambient temperature between 5°C and 35°C.

Packaging

10 and 20 kg bags.

Safety precautions

Arki-Grout C is a non-flammable material and not classified as a hazardous material under current legislations.

The cement content in the product may cause irritation to the skin and eyes. Therefore, unnecessary contact with the product is to be avoided and suitable gloves and goggles must be worn.

Accidental contact of Arki-Grout C to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice.

Do not dispose into water or soil. Dispose the material according to local regulations.

For further information refer to the material safety data sheet.

Technical support

Arki provides assistance to its customers and gives site support, consultations and technical advice on concrete repair, surface preparation and treatment, tile adhesive and tile grout selection, tile installation techniques and maintenance of different types of tiles.

Additional Arki products

Arki produces high quality products intended for use in construction activity, among these products:

- Admixtures for concrete and mortar.
- Surface treatments and primers.
- Engineering grouts.
- Concrete repair and restoration systems.
- Industrial flooring systems.
- Protective coatings and linings.
- Waterproofing materials.
- Adhesives and tiling systems.
- Construction sealants and joint fillers.

Product Quality

All Arki products are manufactured under an independently certified quality management system to conform to the requirements of the international standards.



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Users should always refer to the most recent issue of the product technical data-sheet for the product concerned, copies of which will be supplied on request.
Arki products are guaranteed against defective materials and manufacture and are sold subject to Arki standard terms and conditions of sales.
Because the storage, handling and application of these products are beyond our control, we can accept no liability for the results obtained.