

Arki-Grout C (Swimming Pool)

Water resistance cementitious tile grout for totally submerged conditions.

Description

Arki-Grout C (swimming Pool) is a premium grout consisting of carefully blended mix of portland cement, graded fillers, additives and high quality colorfast chemicals. It is suitable for all types of ceramic, ceramic mosaics, porcelain, stones and cultured marble where joint width is up to 4mm.

Arki-Grout C (Swimming Pool) is formulated to provide a superior grout that offers ease of workability, fast cure, high compressive strength, good flexural strength and color control to be used in totally water submerged areas.

Arki-Grout C (swimming Pool) will dry to a hard, durable and high water-resistant finish, suitable for internal and external applications.

Advantages

- High water and dirt pick up resistant.
- Just add water to material, easy to apply and Smooth texture.
- Suitable for internal and external use.
- Suitable for all kinds of tiles and natural stones.
- High color fastness with wide range of colors.
- Ideal for water immersion conditions.

Product working properties*

Type:	Pre-mixed cementitious powder
Mix ratio:	~ 3.5 liters of cold clean water per 10 kg bag
Bulk density:	~1.20 kg/l
Wet density:	~1.80 kg/l
Pot life:	45 minutes
Initial set time:	2-5 hours
Final Set time:	24 hours

Product performance properties*

Flexural strength: (ASTM C348)	≥ 3.0 MPa (after 28 days)
Compressive Strength: (ASTM C109)	≥ 17.0 MPa (after 28 days)
Shore'D'hardness:	50-65

* 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 (swimming Pool) 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 (swimming Pool) will remain workable for about 45 minutes 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 (swimming Pool), 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):

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

Storage and shelf life

Arki-Grout C (swimming Pool) has a maximum shelf life of 12 months when stored in dry warehouse conditions in unopened, undamaged original bag. Storage should be away from direct sunlight in ambient temperature between 5°C and 35°C.

Packaging

10 kg bags

Safety precautions

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

The cement content of 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 (swimming Pool) 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:

- Concrete Admixtures
- Concrete repair materials.
- Mould release agents and curing compounds.
- Waterproofing materials.
- Flooring systems.
- Protective coatings.

Product Quality

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