

ARKIM ARFILL/2111**■ Definition**

Cement-based grouting plaster

■ Area of application

-It is used to fill 0-6 mm joint gaps of the ceramic, tile, natural stone, granite, marble, etc. applied indoor and outdoor.

-It gives perfect results in indoor horizontal and vertical applications.

■ Application features

-Using period: max. 1 hours

-Hardening time: 12 hours

-Time to open the floor to foot traffic: 24-48 hours

-30 different color variations

■ Surface preparation

-Joint filler application surfaces must be cleared of dust, dirt, oil, etc. that prevent adherence.

-The application surface must not be too dry and bleed.

-When highly absorbent coating materials are used or the application is made in hot and windy weathers, the joint gaps must be moisturized with clean water.

-Since the application will be followed by sudden water loss in case of too high ambient temperature, there can be collapse, roughening and cracking.

■ Application conditions

-Ambient temperature should be between +5 °C and +35°C

-Do not apply on frozen, melting surfaces, or surfaces likely to freeze within 24 hours.

-Do not apply on surfaces under direct sun or strong wind, or hot surfaces.

■ Warnings and Advices

-Strictly avoid adding foreign substances.

-After the application, all tools used must be washed with water before letting them dry.

■ Application tools

Hand mixer, trowel, rubber-tip trowel, sponge-tip trowel, squeegee, brush

■ Application

-The container in which the mortar will be prepared must be clean and cleared of the remnants of the previous mixture.

It is necessary pay attention to cleanliness of the water and materials used.

-The mortar must be prepared by using 7-7.5 liters of water and 20 kg of ARKIM ARFILL.

-Firstly, water is poured into the container, and then the powder is added slowly. It is mixed until no lump appears. A low speed mixer must be used to obtain a homogeneous mixture.

-After a homogeneous mixture has been obtained, it is let to settle for 4-5 minutes. Before starting the application, the mixture is remixed for 1-2 minutes.

-After the mixture has become homogeneous, never add powder, water or another material.

-Spread the prepared mortar on the surface, and fill the joint gaps completely with first parallel and then transversal movements using rubber trowel or spatula.

-When the joint filler starts to dry on the surface, the material is cleaned from the surface with a damp sponge used in circular movements.

-After the surface has dried, it is cleaned completely with a dry cloth.

-Finally, polishing is applied with another cloth.

-The prepared mortar must be consumed within 1 hour.

The caked mortar in the container or the mortar the using period of which is over must be discharged.

-Wash your hands and application tools with plenty of water after the application.

-After the application, the application area must be opened for use after minimum 24-48 hours.

• Performance Details

-Abrasion Resistance: $\leq 2000 \text{ mm}^3$

-Bending strength after dry storage: $\geq 2.5 \text{ N/mm}^2$

-Bending strength after Freeze-Thaw cycle: $\geq 2.5 \text{ N/mm}^2$

-Compressive strength after dry storage: $\geq 15 \text{ N/mm}^2$

-Compressive strength after Freeze-Thaw cycle: $\geq 15 \text{ N/mm}^2$

-Shrinkage: $\leq 3 \text{ mm/m}$

-Water absorption, 30 min. later: $\leq 5 \text{ g}$

Water absorption, 240 min. later: $\leq 10 \text{ g}$

-Inappropriate storage or exceeding the expiry date may deteriorate the properties of the product.

-Note: The application features have been determined in consequence of the tests conducted in laboratory environment (23 ± 2 °C and $50\% \pm 5$ humidity, and no air current), and thus, they may vary by different ambient conditions. The performance details have been tested in the ambients specified in accordance with the relevant standard of the product, and different results may be observed in different ambients.

■ Consumption

Ceramic size	Joint depth	Joint gap (mm)		
		1 mm (g/m ²)	2mm (g/m ²)	3mm (g/m ²)
100x100	6	200	400	600
100x200	6	200	300	500
100x200	9	250	500	750
150x150	6	150	270	400
200x200	8	170	340	500
200x250	9	120	250	360
200x300	8	130	250	400
250x330	8	100	200	300
300x300	9	100	200	300

• Reference Standards

- TS EN 13888/ Class: CG1
- G mark
- Ministry of Public Works Pos. No: 04.0132

• Packaging

- In 20 kg kraft bags, and 5 and 1 kg polyethylene bags
- Pallet: 64 pieces of 1280 kg in total

■ Physical form

- 30 different colors (see Construction chemicals catalog joint filler chart), powder

• Storage Conditions

- It is necessary to take care not to put more than 10 Kraft bags on top of each other in storage.
- This product must be stored in dry indoor areas away from direct sunlight.
- Bags must be stored so as not to contact with the ground in order them to be protected against humid.
- Under such conditions, the product can be stored for 12 months as of the production date.