

# ARMOR JOINT PRO 200

## RAPID SET FLEXIBLE TILE GROUT FOR LARGE TILE GAPS



TILING SOLUTION

### PRODUCT DESCRIPTION

ARMOR JOINT PRO 200 is a high- performance cement-based pre-mixed non-shrink grout, used for filling tile joints in wet and dry areas.

ARMOR JOINT PRO 200 is easy to apply and can be cleaned easily. It only needs to be mixed with water. ARMOR JOINT PRO 200 is available in a wide range of attractive colors (please consult our color chart board).

### BENEFITS

- Highly stain resistant (even coffee, wine, ketchup, etc.)
- Anti-fungus with MOULD STOP Technology
- Good Long open time (enough time to clean residues from the tiles after application)
- Highly water resistant with HYDRO REPELL technology
- UV resistant
- Excellent colour retention.
- Anti-cracks (joints between 1.5 and 20 mm width)
- High abrasion resistance
- Easy to use, requires only the addition of water
- Hardens fast without cracking or shrinkage
- Excellent Water-repellent properties and impermeable to many liquids
- Available in different colours based on Clients Expectation

### APPLICATION AREAS

ARMOR JOINT PRO 200 is suitable to fill joints from 1.5 to 20 mm width, between ceramic tiles, marble and natural stones, glass mosaics, earthenware (faience), porcelain, terracotta, etc.

ARMOR JOINT PRO 200 can be used for internal and external applications, including:

- Swimming-pools
- Balconies
- Terraces
- Wet areas
- Bathrooms, kitchens
- Stairs

We Provide Armor for Building Structures



### PROPERTIES

Mixing water	1.15 to 1.25 L/ 5 kg bag
Fresh density @ 23 °C	1.8 ±0.15
Pot Life	45 min
Setting time (min) at 23 °C	45 min.
Service Temperature	-20 °C to +70 °C
VOC& formaldehyde content	None (<10µg/l)

### TEST RESULTS

Test results as per EN 13888:2009	Results	Standard requirements for type CG class 2WA
Flexural Strength as Per EN 12808-3:2002 (N/mm <sup>2</sup> )	6 N/mm <sup>2</sup>	>3.5 N/mm <sup>2</sup>
Compressive Strength as per EN 12808-3:2002	>15 N/mm <sup>2</sup>	>15 N/mm <sup>2</sup>
Water Absorption after 30 min as per EN 12808-5	0.1 g	< 2 g
Water Absorption after 240 min as per EN 12808-5	0.25 g	< 5 g
Shrinkage as per DIN EN 12808-4 at 28 days standard conditions	1.38 mm/m	< 3 mm/m
Abrasion Resistance as per EN 12808-2:2002 (mm <sup>3</sup> )	≤1000mm <sup>3</sup>	≤1000mm <sup>3</sup>

### Applicable Standards

ANSI A118.7 (polymer modified cement grouts) EN 13888:2009 Classification according to EN 13888: CG2 WA.

### SURFACE PREPARATION

The grooves between all external and internal ceramic surfaces to be grouted must be sound and thoroughly cleaned before the application of the product. All traces of oil or grease must be removed. All loose particles of mortar or tile adhesive in the groove must be removed. Joints should be emptied to at least 2/3 of the tile thickness. Before grouting make sure that tiles are set and that the adhesive had completely dried. Joints width should be from 1.5 mm to 20 mm.

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### SURFACE PREPARATION

Use wet sponge to remove dusts from joints before application.

Before grouting with ARMOR JOINT PRO 200, make sure that the adhesive has completely dried; it will depend on site and weather conditions.

- 24 hours minimum after standard tile adhesives application
- 4 hours minimum after fast-setting tile adhesives application
- 14 days minimum after tiling with traditional "site-mix" mortar on floors (minimum 3 days for walls)
- Some tiles with a matt or porous texture are prone to surface staining when coloured grouts are used. It is recommended to check that no stain will occur by testing on small surface before starting the whole job.

### PRODUCT PREPARATION

Mix 5 kg of ARMOR JOINT PRO 200 with 1.15 to 1.25 Lit. of clean cool water by adding the powder over the water gradually. The amount of mixing water must be respected to avoid efflorescence over the surface of the grout. An electric mixer with low rotation speed (< 300 rpm) should be used. Mix for about 3 to 5 minutes until a uniform lump free paste is obtained. Remix thoroughly until the finished mix has a very creamy consistency and uniformly coloured and allow the mixture to stand for a few minutes before use. water gradually. The amount of mixing water must be respected to avoid efflorescence over the surface of the grout. An electric mixer with low rotation speed (< 300 rpm) should be used. Mix for about 3 to 5 minutes until a uniform lump free paste is obtained. Remix thoroughly until the finished mix has a very creamy consistency and uniformly coloured and allow the mixture to stand for a few minutes before use.

### APPLICATION

Apply ARMOR JOINT PRO 200 with a rubber spatula into the joints diagonally by filling all the gaps, make sure that the product is well compacted with no voids. Use the product within a maximum of 45 min (depending on temperature) after mixing.

### CLEANING OF JOINT SURFACE

Allow the grout to dry (10 or 20 minutes depending on the weather condition) before starting the cleaning process, remove surplus with a damp sponge moving diagonally to prevent removal of grout within the joints. Rinse the sponge frequently using two water containers, one to remove the grouts residue and the other one to clean the sponge. Avoid excess of water while cleaning to prevent discoloration of joints. When dry, polish the tiles with a clean, dry cloth.

Do not spray water under high pressure and avoid using any chemical cleaning agent on the grout until 3 days after the application.

### Curing

In case of hot or windy conditions, it is recommended to dampen the joint a few hours after application of ARMOR JOINT PRO 200, it improves its final performance.

### RECOMMENDATION

In external application, protect the worked area from rain and freezing for 72 hours. In internal application avoid water immersion for 72 hours.

- Do not mix ARMOR JOINT PRO 200 with dirty or salty water.
- ARMOR JOINT PRO 200 should not be used for expansion joints on concrete floor or wall
- Mix ARMOR JOINT PRO 200 with clean water
- Do not use acid to clean coloured grout

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### CONSUMPTION

Examples of consumption (in kg/m<sup>2</sup>):

Tile size(cm) / Joint width(mm)	2	4	6	10
2.5 x 2.5*	2.30	-	-	-
15 x 15	0.38	0.77	1.15	1.92
30 x 30	0.19	0.38	0.58	0.96
60 x 60	0.10	0.19	0.29	0.48

Indicative consumptions calculated with a tile thickness of 8mm

In the case of mosaics with a size of 2.5 x 2.5 cm, the tile thickness of 5mm was used to calculate the consumption. These values only give an indication about the grout consumption.

The real product consumption can differ depending on site conditions and wastage when grouting. This formula does not include application wastage.

### TILE GROUT CONSUMPTION FORMULA:

$$C = 0.18 \times E \times H \times [(L + W)/(L \times W)]$$

C: Consumption (kg/m<sup>2</sup>)

E: Joint Width (mm)

H: Tile Thickness (mm)

L: Tile Length (cm)

W: Tile Width (cm)

### STORAGE

ARMOR JOINT PRO 200 can be stored for 2 years in its original packaging, stored away from extreme temperatures and in dry conditions.

### SAFETY PRECAUTION

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water.

### LIMITED WARRANTY

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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