

TECHNICAL DATA SHEET

FUGA PRO

DESCRIPTION

FUGA PRO is a high-performance cement-based grout designed for filling and decorative finishing of joints from 2–8 mm wide. The product is formulated with innovative raw materials, synthetic resins, selected mineral fillers, perlite-based filler, and inorganic pigments. After mixing with water, it forms a homogeneous, creamy, and easily workable paste that fills joints uniformly and provides a compact, smooth surface. It is designed for use on walls and floors, both indoors and outdoors, providing good mechanical resistance, reduced water absorption, and good colour stability when the application conditions are properly followed.



CLASSIFICATION ACCORDING TO THE STANDARD

Cement-based grout (CG) with improved performance (2), classified as CG2 according to EN 13888. FUGA PRO is suitable for joints from 2–8 mm. It is characterised by low water absorption, abrasion resistance, and colour uniformity.

CHARACTERISTICS

- Excellent workability and homogeneous filling of joints from 2–8 mm wide.
- Compact, smooth surface with good mechanical resistance after hardening.
- Reduced water absorption according to the values declared in the technical data sheet.
- Good resistance to freeze-thaw cycles according to the declared mechanical resistance results.
- Very good resistance to efflorescence, mould, and bacteria.
- Easy cleaning when washing is carried out at the correct time and with a controlled amount of water.
- Inorganic pigments and a formulation designed to maintain colour uniformity and reduce the risk of efflorescence.
- Suitable for ceramic tiles, porcelain stoneware, mosaics, natural stone, marble, and granite, following a preliminary test when the surface is porous or sensitive to staining.
- Suitable for indoor and outdoor areas, walls, floors, terraces, balconies, and heated floors, as part of a properly designed and installed system.
- Available in 24 colours.

FIELD OF APPLICATION

FUGA PRO is used for grouting ceramic tiles, porcelain stoneware, mosaics, natural stone, marble, and granite on walls and floors in indoor and outdoor environments. It is recommended for bathrooms, kitchens, corridors, residential and commercial areas, balconies, terraces, heated floors, swimming pools, and fountains, provided that the waterproofing, tile bonding, movement joints, and system construction details have been correctly executed. For natural stone, highly porous tiles, or surfaces sensitive to pigmentation, a preliminary test is recommended. For areas continuously exposed to aggressive chemicals or with very high hygiene or mechanical requirements, verify whether an epoxy grout or another specific system is required.

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JOINT AND SURFACE PREPARATION

Before grouting, the tile adhesive, self-levelling layer, or waterproofing system must have reached the required curing time according to the relevant product data sheet.

The joints must be clean, sufficiently deep, and free from adhesive, mortar, dust, oils, or other materials that could prevent complete filling.

The surface must be stable and free from standing water.

On highly absorbent tiles or in hot and dry conditions, the edges may be lightly dampened with a sponge without leaving water inside the joints.

Structural, perimeter, and movement joints must not be filled with FUGA PRO; they must be treated with a suitable elastic silicone sealant.

PRODUCT PREPARATION

Pour 1.5–1.6 litres of clean water per 5 kg of FUGA PRO into a clean container, approximately 30–32% by weight of the powder.

Gradually add the product while mixing with a low-speed electric mixer until a homogeneous, lump-free paste is obtained.

Allow the mixture to rest for 2–3 minutes, then briefly remix before use.

Use the same water-to-powder ratio for every batch to minimise colour variations.

Do not add water or powder once the product has started to harden.

The prepared mixture should be used within approximately 25–35 minutes under normal conditions.

APPLICATION

Apply FUGA PRO using a rubber float or rubber spatula, working diagonally across the joints and applying sufficient pressure to ensure complete filling without voids.

Remove excess material from the tile surface using the same rubber float.

Work in manageable areas so that cleaning can be carried out within the correct time.

For heavily textured, porous, or sensitive surfaces, perform a preliminary test to verify cleanability and compatibility.

CLEANING AND FINISHING

When the material begins to set, after approximately 15–30 minutes, depending on temperature, humidity, and tile absorption, clean the surface using a clean, damp, well-wrung sponge, working diagonally across the joints.

Rinse the sponge frequently and use as little water as necessary.

Cleaning too early or using excessive water may remove pigment and cement from the surface, causing colour variations or weakening of the surface layer.

Once dry, remove any remaining haze using a soft, dry cloth.

SAFETY AND HANDLING

The product contains cement and has an alkaline pH after mixing with water.

During mixing and application, wear gloves, protective eyewear, and suitable dust protection.

The formulation also contains crystalline silica; avoid inhaling dust and work in adequately ventilated areas.

For full hazard classification, first-aid measures, storage, transport, and disposal instructions, refer to the latest product SDS.

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WARNING!

- Apply only at temperatures between +5°C and +35°C. High temperatures, wind, direct sunlight, and hot substrates reduce working and cleaning times.
- Use the same amount of water in every batch and, whenever possible, use material from the same production batch on the same surface to achieve better colour uniformity.
- Do not use for joints wider than 8 mm and do not use for structural, perimeter, or movement joints.
- Do not apply before the adhesive or underlying tile system has reached the required curing time. On waterproofed surfaces and with large-format tiles, the existing technical sheet recommends waiting 4–5 days after bonding.
- Protect fresh grout from rain, washing with water, frost, strong sunlight, and rapid drying during the initial hardening phase.
- Do not use excessive water during cleaning and do not wash the surface too early; these are common causes of uneven shades and more porous surfaces.
- For porous tiles, natural stone, sensitive marble, or micro-textured surfaces, carry out a preliminary test to verify compatibility and cleanability.
- For swimming pools and fountains, FUGA PRO must be used only as part of a complete waterproofing and installation system; filling with water should only take place after the system has reached the required curing time.
- At wall-floor junctions, corners, and movement joints, use a suitable elastic silicone/sealant, ideally in a shade coordinated with the grout.

TECHNICAL NOTES

- For colour uniformity, maintain the same water-to-powder ratio, mixing time, and cleaning method over the entire surface.
- Using different amounts of water, excessive washing, or different drying conditions may cause colour variations and efflorescence.
- At junctions, corners, and structural joints, use a suitable elastic silicone sealant.
- For tiles sensitive to pigmentation or natural stone, a preliminary test is recommended before application over the entire surface.
- For areas with high chemical, hygienic, or mechanical requirements, verify whether an epoxy system or another specific solution is required.
- Technical data should be interpreted together with the SDS, DoP, and application system instructions.

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TECHNICAL DATA

Joint width:	2–8 mm
Appearance:	Powder
Packaging:	5 kg bag
Colour:	24 colours
Storage:	Store in a dry place, on pallets
Shelf life:	12 months from the production date
Density:	1.2 g/cm ³
Mixing water:	1.5–1.6 L per 5 kg, approx. 30–32%
Mixture pH:	13
Application temperature:	+5°C to +35°C
Working time:	approx. 25–35 min
Indicative initial cleaning time:	approx. 15–30 min
Indicative floor grouting time:	approx. 24 hours after tile installation
Walkable after:	approx. 24 hours
Compressive strength after 28 days:	≥ 30 N/mm ²
Compressive strength after freeze-thaw cycles:	≥ 21.2 N/mm ²
Flexural strength after 28 days:	≥ 6.8 N/mm ²
Flexural strength after freeze-thaw cycles:	≥ 5.2 N/mm ²
Water absorption after 30 min:	≤ 2 g
Water absorption after 240 min:	≤ 5 g
Shrinkage:	2.91 mm/m

TILES		CONSUMPTION DEPENDING ON THE WIDTH OF THE JOINTS			
		2 mm	4 mm	6 mm	8 mm
2 x 2	kg/m ²	1.00			
5 x 5	kg/m ²	0.85	1.75		
10 x 10	kg/m ²	0.40	0.85	1.30	2.20
7.5 x 15	kg/m ²	0.40	0.85	1.30	2.20
12 x 24	kg/m ²	0.25	0.70	1.05	1.75
15 x 15	kg/m ²	0.25	0.55	0.85	1.45
20 x 20	kg/m ²	0.25	0.55	0.85	1.40
20 x 30	kg/m ²	0.20	0.45	0.70	1.15
30 x 30	kg/m ²	0.15	0.35	0.55	0.95
40 x 40	kg/m ²	0.10	0.25	0.40	0.70
50 x 50	kg/m ²	0.10	0.20	0.35	0.60
60 x 60	kg/m ²	0.05	0.15	0.25	0.45