
# F.15 Setastuc

Single-component WATER-REPELLENT and ANTI-MOULD grout based on special cements with high abrasion and compression resistance, such as PTL 52,5R, quartz and synthetic additives. Suitable for grouting joints from 0 to 6 mm in width on any type of ceramic or natural stone surface. Resistant to acids with pH ≥3.
Excellent resistance to UV rays.
For floors and walls. For indoor and outdoor use.
PROFESSIONAL USE ONLY

FLEX · WATER REPELLENT · CONFORME ALLA NORMA EUROPEA CG2 WA · GEV-EMICODE EC1 PLUS very low emission · anti-mould · ÉMISSIONS DANS L'AIR INTÉRIEUR A+

## SUITABLE APPLICATIONS

- Grouting ceramic tiles of any type on floors and walls;
- grouting tiles and mosaics in swimming pools and on external façades;
- grouting marble, granite, natural stones, etc.

## UNSUITABLE APPLICATIONS

Do not use in the following cases:
- for grouting floors and walls in food, canning, pharmaceutical dairy industries, hospitals, slaughterhouses, canteens and in any other environment where the regulations in force require sealing with acid-proof products (in such cases, use grouts from the F.40 line);
- grouting industrial floors where total chemical resistance is required, such as galvanic and tanning industries, paper-mills, etc. (in such cases, use grouts from the F.40 line);
- filling joints which require up to +250°C thermal resistance (use SOPRODUR HF30);
- filling joints wider than 6 mm.

Do not mix with resin-based synthetic latexes such as F.15/L FUGOLAT except for grouting pre-engraved ceramic material (mix with F.15/L FUGOLAT diluted 1:1 with water and perform a preliminary cleanability test).

## PRELIMINARY TESTS

- Test a small area to make sure that the tiles are cleanable if the surfaces are polished or coated with microporous glazes;
- if the flooring has been fixed with traditional mortar, wait until it has completely dried (at least 10 days) to prevent the apparence of whitish bloom, or colour changes due to soluble salts having migrated to the surface along with the residual humidity of the substrate.

## PREPARATION OF THE MIX

Mix with clean water (do not use brackish or dirty water). Make sure that you use the amount of water indicated.
Slowly add the powder to the water.
Mix with low-speed electric drill fitted with a helical mixer (F.97) until a homogeneous, lump-free mortar has been obtained. Allow the mixture to stand for 5 minutes, then briefly re-mix.

## PREPARATION OF THE JOINTS

Make sure that the tiles have been correctly laid and are well aligned.
The setting mortar or adhesive must be dry (check the instructions supplied with the product used) and the space to be sealed must be of uniform depth, free from dust, crumbly or loose parts.
It is advisable to remove any spacers (crosses) and adhesive or cement residues to avoid efflorescences and differences in colour.

## APPLICATION

Thoroughly wet the joints before applying the grout, if the tiles are very porous and more than 8 mm thick (over 10% water absorption). Apply the mixture with a rubber trowel (F.91/8). Fill the joints through to their full depth, without leaving any air pockets or difference in level, then remove any excess product from the surface by passing the trowel diagonally over the joints while the mixture is still wet.
Wait for the surface of the grout to become matt, then begin the cleaning operation.
***The time you have to wait varies considerably and will depend on the absorbency of the substrate, the material laid and the environmental conditions in the building site (indicatively, you must wait at least 30 minutes with porcelain stoneware tiles at T=20°C).***
Clean the surface by wiping a damp, hard cellulose sponge over the joints with a rotational movement: the rigid back will prevent the grouting from being scraped from the joint cavities.
Always use clean water. Terminate the cleaning operation by wiping the joints in the diagonal direction.

## WARNINGS

- Do not use the product if the temperature could drop to freezing point within the following 48 hours.
***- Do not add extra water to make the grouting more fluid: this would impair the mechanical strength and when dry, the grouting would be powdery and patchy in colour.***
- After the final cleaning operation, especially in a hot (temperature exceeding +30°C) or windy climate, wet the grouting to facilitate the hydration process and prevent cracks, which could form if the product were to dry too quickly (shrinkage during the plastic state).
- Wait for the curing time indicated for each application phase to terminate: partial removal of the grouting from the joints could ensue if the surface is cleaned too soon, while a delay in this process could lead to the need for the use of abrasive tool to remove the hardened product, with the risk of damaging glazed or polished surfaces.
***- Strict compliance with the cleaning times prevents the formation of whitish bloom, particularly evident when dark shades are used.***
***- Make up the mixtures with the same amount of water: this will prevent differences in colour tone when the product is dry.***
- To remove stains, bloom or hardened residues ***due to inadequate cleaning*** use F.80 CERNET (consult the technical data sheet for further details), acid detergent specifically formulated for thorough cleaning of tiles and ceramic materials in general.
If marble or natural stone surfaces must be cleaned, use F.80 MARMONET, a basic detergent specifically formulated for marble (consult the technical data sheet for further details).

## AVAILABLE COLOURS

The list of available colours is given in the general catalogue.

## COVERAGE

Varies depending on the size of the tiles and width of the joints. Consult the table below as a guide.

## CLEANING

Wash the hands and the equipment with water before setting. After this use F.80 CERNET (acid detergent), undiluted or diluted with water, or clean mechanically.

## PACKAGING

5 Kg PE (polyethylene) bags in boxes containing 5 bags each; 25 Kg bags.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

F.15 SETASTUC contains cement which, if in contact with perspiration or other body fluids, will produce an irritant alkaline reaction. Wear protective gloves and safety goggles.
For further and complete information, it is recommended to refer to the latest version of the safety data sheet.

## TECHNICAL DATA

| **Classification according to EN 13888: 2009 (ISO 13007-3)** | **CG2 WA** |
|---|---|
| Appearance | Cement-based premixed product in different colours |
| Hazard classification (Directive 1999/45/CE) | Irritant<br>(for further information see the safety data sheet) |
| Mixing ratio | 26% |
| Volumic mass of mixture | 1950 kg/m$^3$ |
| pH of mixture | ≥ 11 |
| Pot life of mixture | ≥ 40 min. |
| Application temperature range | from +5°C to +35°C |
| *Grouting (minimum) | 24/36 hours (floor laid with adhesive)<br>3/6 hours (floor laid with rapid adhesive)<br>10 days (floor laid with mortar)<br>6-8 hours (walls tiles laid with adhesive) |
| *Waiting time before finishing (cleaning) | approx. 30 min.<br>(depending on the absorbency of the materials being grouted) |
| *Walk-over time | 24 hours |
| *Ready to use | 24 hours (48 hours for tanks and swimming pools) |
| *Final hardening | 3/4 days |
| Thermal resistance | from -30°C to +90°C |
| ***EMICODE*** | ***EC1R$^{PLUS}$ – Very low emission*** |
| VOCs (Rule # 1168 of California's SCQAMD) USGBC – LEED U.S. | 0 g/L |
| Storage | 12 months in original packaging in a dry place in 25 kg bags<br>24 months in original packaging in a dry place in 5 kg in polyethylene (PE) bags |
| **PRODUCT CONFORMS TO THE SPECIFICATIONS ESTABLISHED BY REG. (CE) NO. 1907/2006 (REACH) - ANNEX XVII, ITEM 47** | |

*Data obtained at +23°C and 50% Relative Humidity.

## FINAL PERFORMANCE

| | | |
|---|---|---|
| Abrasion resistance | ≤ 1000 mm$^3$ | EN 12808-2 |
| ***Reduced water absorption after 30 min.*** | ***≤ 1 g (minimun requirement ≤ 2 g)*** | EN 12808-5 |
| ***Reduced water absorption after 240 min.*** | ***≤ 2,5 g (minimun requirement ≤ 5 g)*** | EN 12808-5 |
| ***Reduced water absorption after 7 days*** | ***≤ 2 g*** | |
| Flexural strength after 28 days | ≥ 2,5 N/mm$^2$ | EN 12808-3 |
| Flexural strength after freezing-thawing cycles | ≥ 2,5 N/mm$^2$ | EN 12808-3 |
| Compression strength after 28 days | ≥ 15 N/mm$^2$ | EN 12808-3 |
| Compression strength after freezing-thawing cycles | ≥ 15 N/mm$^2$ | EN 12808-3 |
| Shrinkage | ≤ 3 mm/m | EN 12808-4 |
| Resistance to acids | good if pH ≥ 3 | |

## LEED® SCORE - GBC ITALIA

| **LEED® SCORE SUPPORT*** | **LEED® SCORE** |
|---|---|
| MR Credit 5 – Regional Materials | up to 2 |
| QI Credit 5 – Materials with low emissions | up to 1 |

* LEED is a measurement system for environmental performance intended for commercial, institutional and residential buildings, based on environmental and energy standards, commonly recognized and accepted by the international scientific community. To conform to LEED's evaluation system of building sustainability is a voluntary choice made by a company. The reference to calculate the score is given by the requirements contained in the LEED Italia Manual "Nuove Costruzioni e Ristrutturazioni" ("New Buildings and Reconstructions") - Ed. 2011 - 

| COLOUR STABILITY TABLE F.15 SETASTUC 0-6 mm | |
|---|---|
| **Colour** | **Colour stability** |
| 00 Bianco – White | ••• |
| 46 Silver | ••• |
| 47 Alluminio | ••• |
| 48 Manhattan | ••• |
| 50 Grigio – Grey | ••• |
| 55 Antracite | ••• |
| 70 Bahama Beige | ••• |
| 14 Beige Chiaro | ••• |
| 15 Beige | ••• |
| 16 Caramel | ••• |
| 65 Testa di Moro | •• |
| 10 Jasmin | ••• |
| 18 Tortora | ••• |

**Key:**

| | |
|---|---|
| ••• | **High colour stability: for outdoor and indoor use, especially recommended for use in swimming pools and on outdoor façades that are continuously exposed to solar irradiation** |
| •• | **Good colour stability: for indoor and outdoor use** |
| • | **Limited colour stability: for indoor use** |

***APPROXIMATE COVERAGE FOR CEMENT-BASED GROUTS (Kg/m²)***
***F.15 SETASTUC FOR 0 TO 6 MM JOINTS***

| SIZE | THICKNESS | Width of joints in mm | | | | | |
|---|---|---|---|---|---|---|---|
| cm | mm | *1* | *2* | *3* | *4* | *5* | *6* |
| 2x2 | 3 | 0,51 | 1,02 | 1,53 | 2,05 | 2,56 | 3,07 |
| 2,5x2,5 | 3 | 0,41 | 0,82 | 1,23 | 1,64 | 2,05 | 2,46 |
| 5x5 | 4 | 0,27 | 0,55 | 0,82 | 1,09 | 1,36 | 1,64 |
| 10x10 | 6 | 0,20 | 0,41 | 0,61 | 0,82 | 1,02 | 1,23 |
| 10x10 | 10 | 0,34 | 0,68 | 1,02 | 1,36 | 1,71 | 2,05 |
| 12,5x12,5 | 8 | 0,22 | 0,44 | 0,65 | 0,87 | 1,09 | 1,31 |
| 10x20 | 8 | 0,20 | 0,41 | 0,61 | 0,82 | 1,02 | 1,23 |
| 15x15 | 8 | 0,18 | 0,36 | 0,55 | 0,73 | 0,91 | 1,09 |
| 15x15 | 14 | 0,32 | 0,64 | 0,95 | 1,27 | 1,59 | 1,91 |
| 15x60 | 10 | 0,14 | 0,28 | 0,43 | 0,57 | 0,71 | 0,85 |
| 20x20 | 8 | 0,14 | 0,27 | 0,41 | 0,55 | 0,68 | 0,82 |
| 20x20 | 14 | 0,24 | 0,48 | 0,72 | 0,95 | 1,19 | 1,43 |
| 20x25 | 8 | 0,12 | 0,25 | 0,37 | 0,49 | 0,61 | 0,74 |
| 20x25 | 10 | 0,15 | 0,31 | 0,46 | 0,61 | 0,77 | 0,92 |
| 25x33 | 10 | 0,14 | 0,27 | 0,41 | 0,55 | 0,68 | 0,82 |
| 30x30 | 8 | 0,09 | 0,18 | 0,27 | 0,36 | 0,45 | 0,55 |
| 30x30 | 14 | 0,16 | 0,32 | 0,48 | 0,64 | 0,80 | 0,95 |
| 33x33 | 8 | 0,07 | 0,17 | 0,25 | 0,33 | 0,41 | 0,50 |
| 40x40 | 10 | 0,10 | 0,21 | 0,31 | 0,41 | 0,52 | 0,62 |
| 45x45 | 10 | 0,08 | 0,15 | 0,23 | 0,30 | 0,38 | 0,45 |
| 15x60 | 10 | 0,14 | 0,28 | 0,43 | 0,57 | 0,71 | 0,85 |
| 60x60 | 10 | 0,06 | 0,11 | 0,17 | 0,23 | 0,28 | 0,34 |
| 60x90 | 10 | 0,05 | 0,09 | 0,14 | 0,19 | 0,24 | 0,28 |
| 30x60 | 10 | 0,09 | 0,17 | 0,26 | 0,34 | 0,43 | 0,51 |
| 90x90 | 12 | 0,05 | 0,09 | 0,14 | 0,18 | 0,23 | 0,27 |

## SPECIFICATIONS

Joints from 0 to 6 mm in width between floor and wall tiles in natural stone and ceramic of all types, including klinker, porcelain stoneware and vitreous mosaic, must be grouted with water repellent, anti-mould powder grout based on cements with high resistance of the PTL 52,5R type and conforming to standard EN 13888 class CG2 WA, such as F.15 SETASTUC by CERCOL S.p.A.



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