

NOVAGROUT F



Cement-based grout for tiles and natural stones

- ▷ **Suitable for floors and walls**
 - ▷ **Easy application and cleaning**
 - ▷ **High mechanical strength**
 - ▷ **Suitable for areas with heavy traffic**
 - ▷ **For joint thicknesses of 1 - 10 mm**
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Description

NOVAGROUT F is a cementitious grout, with reduced water absorption and high abrasion resistance for grouting tiles and natural stones on floors and walls. Available in 17 shades and can be applied to joints of at least 1mm width indoors and outdoors.

Certifications

Classification in compliance with EN 13888 as an improved grout for ceramic tiles with reduced water absorption and high abrasion resistance, category CG2WA. VOC emission classification GEV-Emicode EC1^{PLUS}, license number 11441/14.02.20

Uses

NOVAGROUT F is suitable for grouting to:

- Ceramic tiles
- Glass and marble mosaics
- Natural stones, marble, granite, agglomerates

For applications on horizontal and vertical surfaces such as:

- External areas, terraces, balconies etc.
- Internal areas, wet areas like shower rooms and WC
- Underfloor heating systems
- Heavy traffic floors such as shops, hotels, industrial sites, warehouses where resistance to chemical agents is not required

Technical Data

Product Identity

| | |
|--------------------|--|
| Form | Powder |
| Chemical substance | Portland cement, aggregates, special additives |
| Granulometry | $D_{max} : < 0,2 \text{ mm}$ |
| Bulk density | $1,5 \pm 0,1 \text{ kg/L}$ |
| Storage | 12 months on dry area in the original sealed packaging |

Application data (+23°C & 50% R.H.)

| | |
|-------------------------|-----------------------------|
| Mixing ratio | 1,4 – 1,5 L water for 5kg |
| Density of the mix | $1,9 \pm 0,05 \text{ kg/L}$ |
| Application temperature | from +5°C up to +35°C |
| Pot life | ≈ 90 min |
| Open time | ≈ 40 min |
| Range of joints | 1 – 10 mm |
| Walkability | after 24 hours |

Final performance according to EN 13888

| | Performance | Requirement |
|--|--------------------------|---------------------------|
| Abrasion resistance | $\leq 350 \text{ mm}^3$ | $\leq 1000 \text{ mm}^3$ |
| Flexural strength after | | |
| - dry storage | $\geq 6 \text{ N/mm}^2$ | $\geq 2,5 \text{ N/mm}^2$ |
| - after freeze-thaw cycles | $\geq 5 \text{ N/mm}^2$ | $\geq 2,5 \text{ N/mm}^2$ |
| Compressive strength after dry storage | | |
| - dry storage | $\geq 30 \text{ N/mm}^2$ | $\geq 15 \text{ N/mm}^2$ |
| - after freeze-thaw cycles | $\geq 25 \text{ N/mm}^2$ | $\geq 15 \text{ N/mm}^2$ |
| Shrinkage | $\leq 1,5 \text{ mm/m}$ | $\leq 2 \text{ mm/m}$ |
| Water absorption after 30 min | $\leq 1,5 \text{ g}$ | $\leq 2 \text{ g}$ |
| Water absorption after 240 min | $\leq 3,5 \text{ g}$ | $\leq 5 \text{ g}$ |

Application Procedure

Substrate Preparation

The joints should be dry and clean, free from grease, dust or loose materials. Adhesive residues should be removed from the joint before applying NOVAGROUT F.

Preparation of the mix

Mix the content of the plastic bag containing NOVAGROUT F (5 kg) with 1.4 – 1.5 liters of clean and fresh water by means of appropriate electrical stirrer at low speed (500 rpm) for at least 3 – 5 min, until a uniform mortar free of lumps is obtained. The mix has a pot life of 90 minutes. During hot periods and in general, it is recommended to avoid direct sunlight exposure of the materials (in powder or liquid form) before use, otherwise the working time is reduced. In any case avoid mixing by hand.

Application

Application of the mixture to the joints is made with rubber spatula diagonally in the direction of the joints to fill the depths and widths of the gaps. With the same tool and way, the excess material is removed from the surface of the tiles.

Cleaning is done as long as the product is fresh using a well-moistened hard sponge with circular movements. During the cleaning process the sponge should be cleaned at regular intervals with plenty of water. Then the surface of the tiles is cleaned with a clean, soft and slightly damp sponge. At the end of the cleaning, the tile surface should be free from traces of grout, because after hardening the product can only be removed by mechanical means.

Recommendations

- Protect the surface from rain and frost for the first 24 hours
- During application, the minimum substrate and ambient temperature should be + 5°C and maximum + 35°C
- For the adhesion and grouting of natural stones it is recommended to check the ease of cleaning and stability of natural stone shades
- Do not use on porous surfaces (eg cotto)
- Do not apply it to loose, fresh or on substrate that has not matured sufficiently
- Do not use it when there is water in joints or expansion joints
- Do not use in joints smaller than 1 mm and bigger than 10 mm
- Do not add cement, lime, gypsum or other binders or substances which may affect the mortar characteristics
- Never exceed the maximum recommended quantity of mixing water
- Avoid the presence of stagnant water in newly grouted joints. Permanent immersion in water takes place after 7 days
- Application should be performed by professional skilled workers

Consumption

Indicative consumption in kg/m²

| Tile dimensions (cm) | Joint width (mm) | | | | |
|----------------------|------------------|-----|-----|-----|-----|
| | 2 | 3 | 4 | 6 | 8 |
| 2 x 2 x 0,4 | 1,5 | 2,3 | 3,0 | 4,6 | 6,1 |
| 10 x 10 x 0,6 | 0,5 | 0,7 | 0,9 | 1,4 | 1,8 |
| 10 x 10 x 1 | 0,8 | 1,1 | 1,5 | 2,3 | 3,0 |
| 10 x 20 x 0,6 | 0,3 | 0,5 | 0,7 | 1,0 | 1,4 |
| 10 x 20 x 1 | 0,6 | 0,9 | 1,1 | 1,7 | 2,3 |
| 15 x 15 x 0,6 | 0,3 | 0,5 | 0,6 | 0,9 | 1,2 |
| 12 x 24 x 1,2 | 0,6 | 0,9 | 1,1 | 1,7 | 2,3 |
| 25 x 25 x 0,8 | 0,2 | 0,4 | 0,5 | 0,7 | 1,0 |
| 30 x 30 x 0,9 | 0,2 | 0,3 | 0,5 | 0,7 | 0,9 |
| 30 x 30 x 1,5 | 0,4 | 0,6 | 0,8 | 1,1 | 1,5 |
| 30 x 60 x 1 | 0,2 | 0,3 | 0,4 | 0,6 | 0,8 |
| 33 x 33 x 1 | 0,2 | 0,3 | 0,5 | 0,7 | 0,9 |
| 40 x 40 x 1 | 0,2 | 0,3 | 0,4 | 0,6 | 0,8 |
| 45 x 45 x 1 | 0,2 | 0,3 | 0,3 | 0,5 | 0,7 |
| 50 x 50 x 1 | 0,2 | 0,2 | 0,3 | 0,5 | 0,6 |
| 60 x 60 x 1 | 0,1 | 0,2 | 0,3 | 0,4 | 0,5 |
| 60 x 120 x 1 | 0,1 | 0,1 | 0,2 | 0,3 | 0,4 |
| 80 x 80 x 1 | 0,1 | 0,1 | 0,2 | 0,3 | 0,4 |
| 90 x 90 x 1 | 0,1 | 0,1 | 0,2 | 0,3 | 0,3 |
| 120 x 120 x 1 | 0,1 | 0,1 | 0,2 | 0,3 | 0,3 |

Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water as long as, NOVAGROUT F is still fresh. After hardening occurs, cleaning can take place by mechanical means. Traces on tiles using ACID CLEAN.

Storage

NOVAGROUT F remains stable for 12 months from production date inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

Packaging

Plastic bag of 5 kg and multi-layer paper bags of 20kg

Safety Instructions

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety related data.

Legal Notes

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

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For the latest and valid version of the Technical Data Sheet, the user of the material must refer to our website www.novamix.gr or directly to the QR Code of the product.



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