

NOVAGROUT EPOXY

Epoxy grout and tile adhesive

- ▷ **Suitable for bonding and grouting tiles**
 - ▷ **Easy application and cleaning**
 - ▷ **High mechanical strength with particularly smooth texture**
 - ▷ **Suitable for areas with heavy traffic**
 - ▷ **For joint thicknesses of 1-15 mm**
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Description

NOVAGROUT EPOXY is an epoxy grout and two-component tile adhesive for floors and walls. It is resistant to a variety of corrosive substances, acids, alkalis, detergents, saline, and seawater and is suitable for areas that must remain perfectly clean. Can be applied to joints of at least 1mm width indoors and outdoors.

Certifications

CE Marking and Declaration of Performance (DoP) C08547-CPR-2210502 as improved reaction resin adhesive with reduced slip for ceramic tiles according EN 12004, class R2T.

Meets the requirements of EN 13888 as reaction resin grout, type RG.

Compliant with Directive 2004/42 / EC the maximum permissible VOC content for subcategory j, type WB is 140 g/L. The product NOVAGROUT EPOXY is free of VOC.

Uses

NOVAGROUT EPOXY is suitable for grouting and welding tiles, mosaics and natural stones to:

- External areas, terraces, balconies etc.
- Swimming pools, even in seawater
- Internal areas, wet areas like shower rooms and WC
- Underfloor heating systems
- Heavy traffic floors such as shops, hotels, industrial sites, warehouses
- Where there is a requirement for rugged, non-absorbent joints such as dairies, slaughterhouses, breweries, professional kitchens etc.

Technical Data

Product Identity

Form	Component A: Paste, Component B: Liquid
Chemical substance	Epoxy resin, aggregates, special additives
Color	00, 10, 11, 12, 30, 32 of the NOVAGROUT color chart
Granulometry	$D_{max}: < 0,1 \text{ mm}$
Storage	12 months on dry area in the original sealed packaging

Application data (+23°C & 50% R.H.)

Mixing ratio	A : B \approx 95 : 5
Specific gravity of the mix	$1,5 \pm 0,05 \text{ kg/L}$
Application temperature	from +12°C up to +30°C
Pot life	\approx 45 - 60 min
Open time	\approx 20 min
Range of joints	1 – 15 mm
Resistance temperature	from - 20°C up to +100°C
Walkability	after 24 hours
Final strengths	after 7 days

Final performance according EN 12004:2007+A1:2012 & EN 13888

	Performance	Requirement
Abrasion resistance	$\leq 25 \text{ mm}^3$	$\leq 250 \text{ mm}^3$
Flexural strength after dry storage	$\geq 35 \text{ N/mm}^2$	$\geq 30 \text{ N/mm}^2$
Compressive strength after dry storage	$\geq 35 \text{ N/mm}^2$	$\geq 30 \text{ N/mm}^2$
Shrinkage	$\leq 0,9 \text{ mm/m}$	$\leq 1,5 \text{ mm/m}$
Water absorption after 240 min	$\leq 0,005 \text{ g}$	$\leq 0,1 \text{ g}$
Initial shear adhesion strength	$\geq 11 \text{ N/mm}^2$	$\geq 2 \text{ N/mm}^2$
Shear adhesion strength after water immersion	$\geq 9,5 \text{ N/mm}^2$	$\geq 2 \text{ N/mm}^2$
Shear adhesion strength after thermal shock	$\geq 2,8 \text{ N/mm}^2$	$\geq 2 \text{ N/mm}^2$
Slip	$\leq 0,1 \text{ mm}$	$\leq 0,5 \text{ mm}$
Open time: tensile adhesion strength	$\geq 5 \text{ N/mm}^2$	$\geq 0,5 \text{ N/mm}^2$
Reaction to fire	E	

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 EPOXY.

Where NOVAGROUT EPOXY is used as a tile adhesive for existing flooring and/or walls of ceramic tiles, granite tiles, marbles, mosaics, etc. these should be well fixed to the substrate and free of debris that may affect adhesion. If necessary, clean the surface according to the type of surface dirt with ALCALINE CLEANER or ACID CLEAN TURBO and rinse with clean water. For more information, please refer to the corresponding Product Data Sheets.

Preparation

Add component B (liquid) to the container of component A (paste) and mix it with an electric stirrer at low speed until a uniform, lump-free paste is obtained. Keep in mind that NOVAGROUT EPOXY develops heat when stirring and if the ingredients are mixed at high revolutions, the heat that will develop will accelerate the hardening of the material, resulting in a significant reduction in the workability time. Avoid mixing in any case by hand.

Application

As epoxy adhesive

Apply the material with a notched trowel of suitable width depending on the shape of the substrate and the back of the coat and proceed to the placement of the tiles by applying constant pressure to ensure good contact with the adhesive.

As grout

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 if 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.

Related Products

NOVAGROUT EPOXY FREEZE

Special product version for applications at low temperatures $< +15^{\circ}\text{C}$ but strictly $> 0^{\circ}\text{C}$. Other restraints of such as residual substrate humidity, relative humidity, etc. remain unchanged. In addition, if the FREEZE version is applied at temperatures $> +15^{\circ}\text{C}$ in the first 24 hours, a chromatic deviation may occur which has no effect on the physical and mechanical properties of the coating.

Recommendations

- Always use the preset quantities of A & B
- During application, the minimum substrate and ambient temperature should be + 12°C and maximum + 30°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 a 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
- Do not use acid or corrosive substances during cleaning
- Avoid the presence of stagnant water in newly grouted joints. Permanent immersion in water takes place over 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
Tile 2 x 2 x 0,4	1,5				
10 x 10 x 0,6	0,4	0,5	0,7	1,1	1,4
10 x 10 x 1	0,6	0,9	1,2	1,8	2,4
10 x 20 x 0,6	0,3	0,4	0,5	0,8	1,1
10 x 20 x 1	0,5	0,7	0,9	1,4	1,8
15 x 15 x 0,6	0,2	0,4	0,5	0,7	1,0
12 x 24 x 0,9		0,5	0,7	1,0	1,4
12 x 24 x 1,4		0,8	1,1	1,6	2,1
25 x 25 x 1, 2	0,3	0,4	0,6	0,9	1,2
30 x 30 x 1	0,2	0,3	0,6	0,6	0,8
30 x 60 x 1	0,2	0,2	0,3	0,5	0,6
33 x 33 x 1	0,2	0,3	0,4	0,5	0,7
40 x 40 x 1	0,2	0,2	0,3	0,5	0,6
45 x 45 x 1	0,1	0,2	0,3	0,4	0,5
50 x 50 x 1	0,1	0,2	0,2	0,4	0,5
60 x 60 x 1	0,1	0,2	0,2	0,3	0,4
60 x 120 x 1	0,1	0,1	0,2	0,2	0,3
80 x 80 x 1	0,1	0,1	0,2	0,2	0,3
90 x 90 x 1	0,1	0,1	0,1	0,2	0,3

Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water if, NOVAGROUT EPOXY is still fresh. After hardening occurs, cleaning can take place by mechanical means.

Storage

NOVAGROUT EPOXY 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. Traces on tiles removed by using CLEANCOLL.

Packaging

Plastic containers of 5 kg.

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.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice. Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing. 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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