

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. In combination with the pigments in powder form, EPOCOLOR pronounces particularly smooth finish in 24 shades. It is resistant to a variety of corrosive substances, acids, alkalis, detergents, saline and sea water and is suitable for areas that must remain perfectly clean. Can be applied to joints of at least 1mm width indoors and outdoors.

Certifications

Meets the requirements claimed by EN 13888 and EN 12004 with Declaration of Performance (DoP) C06357-CPR-1610501 as a high-performance grout resin and adhesive for low-slip ceramic tiles according to EN 13888 category RG and EN 12004 R2T class.

Compliant with Directive 2004/42 / EC the maximum permissible VOC content for subcategory i, formula Y is 140 g / L. The product NOVAGROUT EPOXY & EPOCOLOR 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
Mix color with epocolor	Refer to the corresponding color chart
Chemical substance	Epoxy resin, aggregates, special additives
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	$\approx 45 - 60 \text{ min}$
Open time	$\approx 20 \text{ min}$
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 to EN 13888 & EN 12004:2007+A1:2012

	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 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 (400 - 500 r.p.m.) until a uniform, lump-free mass is obtained. Then add 450gr of EPOCOLOR dye to the mixture and stir again until a homogeneous mixture is achieved. 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

Epoxy adhesive

Apply the material with a spatula of suitable width depending on the substrate and backing of the coating and proceed with the placement of the tiles or chip, as is the case with the usual tile adhesives. Absorbent substrates (max. Moisture up to 4%) must be primed with WATER PRIMER EPX. Non-absorbent substrates such as e.g. existing ceramic tiles must be primed with PLANOPRIMER EPOXY. In any case, welding should be done 2-18 hours after application of the primer. For more information, please refer to the Technical Data Sheets of the respective products.

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 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.

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 PLANOCOAT EPX 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 as well as the EPOCOLOR
- 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 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 after 7 days
- Application should be performed by professional skilled workers

Consumption

Indicative consumption in kg/m²

	Joint width (mm)				
Tile dimensions (cm)	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 as long as, 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 4,55 kg and EPOCOLOR in 0,45 kg containers

Safety Instructions

For further information refer to the Safety Data Sheet of the product

Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given on their merchantability or suitability for a particular purpose, and no liability whatsoever from any legal relationship can be claimed against the Company on the basis of any written information, written suggestions tips or other forms of instructions provided. For this reason anyone interested of using the product must be sure beforehand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.



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