

NOVACOL 2K ELASTIC



Two component elastic epoxy-polyurethane adhesive

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- ▷ **Suitable for large size ceramic tiles and natural stones**
 - ▷ **Resistant to water and severe weather conditions**
 - ▷ **Suitable for various substrates**
 - ▷ **Resistant to a variety of chemicals**
 - ▷ **Creates a sealing membrane**
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Description

NOVACOL 2K ELASTIC is a two-component epoxy-polyurethane adhesive without solvents. It is suitable for tiling tiles and natural stones such as marble, granite and most building materials for almost all common substrates in exterior and interior applications on horizontal and vertical surfaces. It is characterized by high adhesion strength and excellent chemical resistance.

Certifications

Meets the requirements claimed by EN 12004 as an improved, reaction resin adhesive, with reduced slip, for internal and external tiling, with Declaration of Performance (DoP) C07824-CPR-1600600 category R2T.

Uses

NOVACOL 2K ELASTIC is suitable for fixing coverings such as:

- Large size ceramic and gres porcelain tiles
- Ceramic and glass mosaic
- Humidity stable marble and natural stones

For applications on horizontal or vertical surfaces such as:

- External areas, balconies etc.
- Internal areas, wet areas like shower rooms and WC
- Heavy traffic floors

For application on various substrates like:

- Properly cured concrete and cement screeds
- Non-absorbent surfaces
- Renders and plasters
- Cement boards and Gypsum boards
- Wood, metal, stainless metal, PVC, asphalt surfaces

Technical Data

Product Identity

	Part A	Part B
Form	Paste	Liquid
Color	White	Brown
Chemical substance	Epoxy-polyurethane resin, aggregates, special additives	Catalyst
Bulk density / Density	1,45 ± 0,1 kg/L	0,98 kg/L
Storage	12 months on dry area in the original sealed packaging	

Mechanical Characteristics

Mixing ratio	Predefined proportions
Specific gravity of the mix	1,45 ± 0,1 kg/L
Application temperature	from +15°C up to +30°C
Pot life	45 – 60 min / 20°C
Open time	60 min
Adjustability time	60 min
Walkability	after 12 hours
Grouting on wall	after 6 hours
Grouting on floor	after 12 hours

Final performance according to EN 12004:2007+A1:2012

	Performance	Requirements
Initial shear adhesion strength	≈ 11,7 N/mm ²	≥ 2,0 N/mm ²
Shear adhesion strength after water immersion	≈ 9,6 N/mm ²	≥ 2,0 N/mm ²
Shear adhesion strength after thermal shock (100°C)	≈ 2,8 N/mm ²	≥ 2,0 N/mm ²
Slip	≤ 0,5 mm	≤ 0,5 mm
Open time: tensile adhesion strength after 20 min	≥ 2,5 N/mm ²	≥ 0,5 N/mm ²
Reaction to fire	E	Class

Application Procedure

Substrate Preparation

The substrate has to be compact, clean, free of grease, oil, laitance and any substances which may compromise the adhesion of NOVACOL 2K ELASTIC. The minimum tensile strength of the substrate must be at least 1,5 N/mm² and the minimum compressive strength at least 5 N/mm². Existing cracks on the substrate should be bonded with the fluid epoxy resin NOVAMIX EPO FLUID. On the still fresh NOVAMIX EPO FLUID surface, scatter NOVAMIX S 500 silica sand or similar in order to create a mineral surface. Concrete based substrates should be prepared in example by grinding, in order to obtain a uniform flat mineral surface without protruding spots.

Existing ceramic, gres porcelain tiles, marble and stone coverings on floors and/or walls must be firmly attached to the substrate and free of laitance on their surface which may compromise adhesion. If required clean the coverings with appropriate detergent, depending on the type of dirt, like ALCALINE CLEANER or ACID CLEAN and rinse with plenty of water. For additional information refer to the Technical Data Sheets of the relevant products.

Preparation of the mix

Components A and B are in a predetermined mixing ratio. Transfer the entire quantity of component B to the packaging of component A and mix it with an electric mixer at low revs (300 rpm) for at least 3-5 minutes. Mixing should be carried out until the mixture is completely homogenized. The product is ready for use. The mixture has about 1 hour pot life. In hot periods and in general, it is advisable not to expose the materials before using them in the sun (powders and liquids), otherwise the open time of the mixture is greatly reduced. Avoid mixing in any case by hand.

Application

It is applied with a tooth spatula depending on the back site of the coating. Follow the coating manufacturer's instructions. The amount of adhesive applied should be sufficient to ensure satisfactory coverage. Apply uniformly the adhesive to a surface where you can stick the coating within 60 minutes.

Grouting

For areas where resistance to strong chemicals is required like in example wet areas or industrial floors it is recommended to use the epoxy grout NOVAGROUT EPOXY or NOVAGROUT DECO EPOXY. For additional information refer to the Technical Data Sheets of the relevant products.

Recommendations

- Don't apply on substrates and/or areas with temperature less than +15°C or higher than +30°C
- Do not cover or apply the product over existing expansion joints
- Do not apply on wet substrates, maximum humidity <3%
- Do not apply on fresh asphalt surfaces or with oil drainage
- Applying with a flat spatula is required to form a sealing membrane
- Application must be done by professional applicator

Consumption	Depending on the application, 2 - 3 kg / m ²
Cleaning	Tools, buckets, tiles etc. can be cleaned with NOVATHINNER PU as long as, NOVACOL 2K ELASTIC is still fresh.
Storage	NOVACOL 2K ELASTIC remains stable for at least 12 months in the original sealed packaging stored in dry place in temperature between +5°C and +30°C.
Packaging	Plastic buckets of 5 kg (Part A: 4,88 kg, Part B: 0,12 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.

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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