

NOVACOL RAPID

Quick-setting cementitious tile adhesive of category C2FT

- ▷ **Zero slip and strong initial bonding**
- ▷ **Suitable for all types of tiles and natural stones**
- ▷ **Weather resistant**
- ▷ **Suitable for a variety of substrates**
- ▷ **Suitable for underfloor heating systems**

Description

NOVACOL RAPID is a fast-setting cementitious adhesive for tiles and natural stones. It has excellent workability and a high initial and final adhesion strength. It can be used in both external and internal applications on almost any standard substrate.

Certifications

CE Marking and Declaration of Performance (DoP) C10088-CPR-2200420 as improved cementitious adhesive for ceramic tiles with reduced slip according EN 12004 Class C2FT

Uses

NOVACOL RAPID is suitable for fixing coverings such as:

- Middle size ceramic and Gres porcelain tiles
- Moisture sensitive marble and natural stones, minimizes the risk of water stains

For applications on horizontal or vertical surfaces such as:

- External areas, swimming pools, balconies etc.
- Internal areas, wet areas like shower rooms and WC
- Heavy traffic floors
- Underfloor heating systems

For application on various substrates like:

- Properly cured concrete and cement screeds
- Nonabsorbent surfaces (after primer application)
- Renders and plasters
- Cement boards and Gypsum boards (after primer application)

Technical Data

Product Identity

Form	Powder
Color	White
Chemical substance	Portland cement, aggregates, special additives
Granulometry	D _{max} : 0.6 mm
Bulk density	1.5 ± 0.1 kg/L
Storage	12 months on dry area in the original sealed packaging

Application data (+23°C & 50% R.H.)

Mixing ratio	6 – 6.5 L of water for 25kg
Density of the mix	1.65 ± 0.05 kg/L
Application temperature	from +5°C up to +35°C
Pot life	≈ 90 min
Open time	≈ 20 min
Corrections time	≈ 10 min
Walkability	after 2 - 4 hours
Grouting on wall	after 1 - 2 hours
Grouting on floor	after 2 - 4 hours
Consumption by trowel	No 4: 1,8 – 2,0 kg/m ² No 6: 2,6 – 2,8 kg/m ² No 8: 3,6 – 4,0 Kg/m ² No10: 4,8 – 5,0 kg/m ²

Final performance according to EN 12004:2007+A1:2012 (C2FT)

	Performance	Requirement
Tensile adhesion strength		
- early < 6 hours	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²
- initial	≥ 2,2 N/mm ²	≥ 1,0 N/mm ²
- after water immersion	≥ 1,2 N/mm ²	≥ 1,0 N/mm ²
- after heat ageing	≥ 2,0 N/mm ²	≥ 1,0 N/mm ²
- after freeze-thaw cycles	≥ 2,6 N/mm ²	≥ 1,0 N/mm ²
Slip	≤ 0.5 mm	≤ 0.5 mm

Application Procedure

Substrate Preparation

The substrate must be compact, clean, and free of grease, oil, laitance, and other substances that could interfere with NOVACOL RAPID adhesion. The tensile strength of the substrate must be at least 1.5 N/mm².

Existing ceramic, Gres porcelain tiles, marble, and stone floor and/or wall coverings must be firmly attached to the substrate and free of surface laitance that could compromise adhesion. If necessary, use an appropriate detergent, such as ALCALINE CLEANER or ACID CLEAN, to clean the coverings, and thoroughly rinse with water. Before applying tiles, a primer coat of PLANO CONTACT FAST should be applied.

Preparation of the mix

Mix the contents of the 25kg paper bag containing NOVACOL RAPID (25 kg) for at least 3-5 minutes on low speed with an appropriate electric stirrer, until a uniform mortar free of lumps is obtained. It is recommended to avoid exposing the materials (in powder or liquid form) to direct sunlight before use during hot periods and in general, as this reduces working time.

Application

To ensure complete contact between the tiles and the adhesive, the tiles are placed with firm pressure on the still-fresh adhesive bed. The open time of NOVACOL RAPID in normal temperature and humidity conditions is 20 minutes. Unfavorable weather conditions, such as direct sunlight, drying and/or hot wind, or a very absorbent substrate, can reduce the open time significantly. As a result, determining whether the adhesive has formed a superficial skin is critical. Remove the adhesive from the substrate and reapply it before installing the tiles if this occurs. Small adjustments must be made 10 minutes after the tile is installed.

Grouting

Grouting can be completed between 1-4 hours after the tile has been installed. For large-sized tiles, the wait time may be extended. NOVAGROUT F is recommended for grouting joints as wide as 10mm. For rectified tiles or when a very smooth grout surface is required, NOVACOLOR GLASS can be used. NOVAGROUT G is intended for joints with widths ranging from 5 to 20mm. The epoxy grout NOVAGROUT EPOXY is recommended for areas where chemical resistance is required, such as swimming pools or industrial floors. For more information, consult the Technical Data Sheets for the relevant products.

Recommendations

Avoid using NOVACOL RAPID:

- In cases where the substrate and environment temperature is less than +5°C or higher than +35°C
- In a thickness higher than 10mm
- On substrates like metal, wood or surfaces like polyurethane, acrylic and similar paint or coatings (use NOVACOL 2K ELASTIC)
- On PVC, asphalt membranes and in general materials which polymerize in the long run
- On friable or not properly cured substrates
- Over existing expansion joints
- On non-absorbent substrates without a suitable primer
- Under direct sunlight and/or strong wind

Also note the following:

- Never exceed the maximum recommended quantity of mixing water
 - Protect the tiled surface from rain and frost for the first 24 hours
 - For tiles of total surface over 900 cm² the double-spreading (buttering) technique of adhesive is always recommended
 - Do not add cement, lime, gypsum or other binders or substances which may affect the mortar characteristics
 - Application should be performed by professional skilled workers
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Consumption

Ceramic tile bonding:

- Mosaics and small dimensions: 2 kg/m²
 - Medium size tiles: 2,5 - 3kg/m²
 - Large tiles and external areas: 4-6 Kg/m²
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Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water as long as, NOVACOL RAPID is still fresh. After hardening occurs, cleaning can take place by mechanical means.

Storage

NOVACOL RAPID 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

Multi-layer paper bags of 25 kg.

Safety Instructions

Users should refer to the most recent Safety Data Sheet of the product for information and instructions on disposal and safe handling. This sheet contains ecological, toxicological, and other safety-related data.

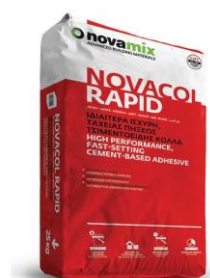
Legal notes

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 a 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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