



# NOVACOL SUPER

## Enhanced cement-based tile adhesive C2TE

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- ▷ **Suitable for ceramic tiles and moisture stable natural stones**
  - ▷ **Weather resistant**
  - ▷ **Suitable for various substrates**
  - ▷ **Suitable for underfloor heating systems**
  - ▷ **Extended open time and no vertical slip**
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### Description

H NOVACOL SUPER is a ceramic tile and natural stone adhesive in powder form. It is consisted of cement, fine selected sand and special additives. It is, a high performance, thixotropic adhesive with extended open time and reduced slip. It is suitable for internal and external tiling on floors and walls.

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### Certifications

CE Marking and Declaration of Performance (DoP) C09461-CPR-2100260 as an improved cementitious adhesive with extended open time and reduced slip according EN 12004 Class C2TE.

VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>

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### Uses

NOVACOL SUPER is suitable for fixing coverings such as:

- Medium size ceramic and Gres porcelain tiles
- Ceramic and glass mosaic, mixed with SBR 50
- Humidity stable marble and natural stones

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 <sub>max</sub> : 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 - 7 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                | > 6 hours  |
| Open time               | 30 min   |
| Corrections time        | 30 min   |
| Walkability             | after 24 hours   |
| Grouting on wall        | after 10 -12 hours   |
| Grouting on floor       | after 24 hours   |
| Consumption by trowel   | No 4: 1,8 – 2,0 kg/m <sup>2</sup><br>No 6: 2,6 – 2,8 kg/m <sup>2</sup><br>No 8: 3,6 – 4,0 Kg/m <sup>2</sup><br>No10: 4,8 – 5,0 kg/m <sup>2</sup> |

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

|  | Performance             | Requirements            |
|--|-------------------------|-------------------------|
| Initial tensile adhesion strength                | ≥ 1,6 N/mm <sup>2</sup> | ≥ 1,0 N/mm <sup>2</sup> |
| - after water immersion                          | ≥ 1,0 N/mm <sup>2</sup> | ≥ 1,0 N/mm <sup>2</sup> |
| - after heat ageing                              | ≥ 1,4 N/mm <sup>2</sup> | ≥ 1,0 N/mm <sup>2</sup> |
| - after freeze-thaw cycles                       | ≥ 2,0 N/mm <sup>2</sup> | ≥ 1,0 N/mm <sup>2</sup> |
| Extended open time:<br>tensile adhesion strength | ≥ 1,0 N/mm <sup>2</sup> | ≥ 0,5 N/mm <sup>2</sup> |
| Slip   | ≤ 0,5 mm                | ≤ 0,5 mm                |

## 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 SUPER. The minimum tensile strength of the substrate must be at least 1,5 N/mm<sup>2</sup> and the minimum compressive strength at least 5 N/mm<sup>2</sup>.

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. Prior to the application of tiles, a primer coat of PLANO CONTACT should be applied.

On absorbent substrates like concrete, cement screeds etc. especially on hot and/or windy days saturate well the substrate with water and remove excess with appropriate toll like sponge. For additional information refer to the Technical Data Sheets of the relevant products.

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### Preparation of the mix

Mix the content of the 25kg paper bag containing NOVACOL SUPER (25 kg) with 6 – 7 liters of clean and fresh water by means of appropriate electrical stirrer low speed for at least 3 – 5 min, until a uniform mortar free of lumps is obtained. 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. If there is requirement for deformable tile adhesive, like for example for application of large size tiles, it is recommended to add 8% by weight of the enhancing latex NOVAMIX SBR 50 and reduce water by 4 - 6% by weight.

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### Application

The tiles are placed on the still fresh adhesive bed, by applying firm pressure, in order to ensure full contact between the tiles and the adhesive. The open time of NOVACOL SUPER in normal temperature and humidity conditions is 30 minutes. Unfavorable weather conditions like contact with strong direct sunlight, drying and/or hot wind or a very absorbent substrate may reduce the open time significantly. For this reason, it is important to check if the adhesive has formed a superficial skin. If such incident occurs, remove the adhesive from the substrate and reapply it, before applying the tiles. Small corrections must take place 30 minutes after tile application. Surfaces tiled with NOVACOL SUPER should not be exposed to rain, strong sun or frost for at least 24 hours.

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### Grouting

Grouting can take place 12 - 24 hours after the tile application. For large size tiles this waiting time might be prolonged. For grouting joints up to 10mm width it is recommended to use of NOVAGROUT F. For rectified tiles or when the requirement is very smooth grout surface, NOVACOLOR GLASS can be used. For wide joints of 5 - 20mm NOVAGROUT G. In areas where resistance to strong chemicals is required like in example swimming pools or industrial floors it is recommended to use the epoxy grout NOVAGROUT EPOXY. For

additional information refer to the Technical Data Sheets of the relevant products.

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## Recommendations

Avoid using NOVACOL SUPER:

- 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
- For bonding humidity sensitive marble and natural stones
- On friable or not properly cured substrates
- Over existing expansion joints
- Over not absorbent substrates without appropriate primer
- Under direct sunlight and/or strong wind

Also note the following:

- Never exceed the maximum recommended quantity of mixing water
- For tiles with a side greater than 60cm add to the water, depending on the requirements, the plasticizer emulsion SBR 50
- for tiles of total surface over 900 cm<sup>2</sup> the double-spreading (buttering) technique of adhesive is always recommended
- Protect the tiled surface from rain and frost for the first 24 hours
- 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: 2kg/m<sup>2</sup>
- Medium size tiles: 2,5 - 3kg/m<sup>2</sup>
- Large tiles and external areas: 4-6Kg/m<sup>2</sup>

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## Cleaning

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

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## Storage

NOVACOL SUPER 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.

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## Packaging

Multi-layer paper bags of 25 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.

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