

## Neofloor®

### Self-levelling cementitious screed for smoothing and repairing on floors



#### Description

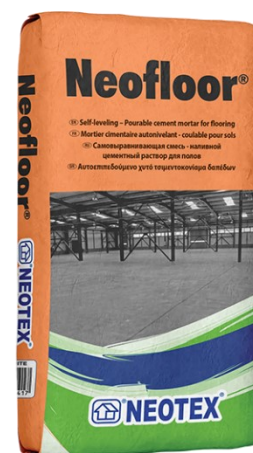
Pourable self-levelling cementitious screed suitable for smoothing and repairing on floors. Classified as CT-C50-F10-A9-B1,5, acc. to EN 13813

#### Fields of application

- Smoothing and leveling of interior floors made of concrete, cement screed, etc. prior to the application of tiles, epoxy, polyurethane or polyurea coatings, plastic or wooden floors, carpet, etc.
- As a final surface in low traffic floors, e.g. home storage rooms, attics, etc.

#### Properties - Advantages

- Fast drying, facilitates overcoating in a short time period
- Excellent mechanical strength
- Suitable for interior, as well as exterior areas, due to its resistance to humidity
- Applicable in thicknesses from 1mm up to 7mm
- Classified as CT-C50-F10-A9-B1,5 acc. to EN 13813



#### Packing

25kg in bags

#### Colour

Grey

#### Certificates – Test reports

CE certification acc. to EN 13813

Classified as cementitious screed material CT-C50-F10-A9-B1,5

#### Technical characteristics

|  |   |
|--|---|
| Water requirement per bag of 25kg          | 3,7-3,9L                                |
| Maximum grain size (D <sub>max</sub> )     | 0,4mm                                   |
| Compressive strength (28 days, EN 13892-2) | ≥50MPa                                  |
| Flexural strength (28 days, EN 13892-2)    | ≥10MPa                                  |
| Wear resistance – Böhme (EN 13892-3)       | ≤9,0 cm <sup>3</sup> /50cm <sup>2</sup> |
| Adhesion strength (EN 13892-8)             | ≥1,5MPa                                 |

|   |          |
|---|----------|
| Reaction to fire (EN 13501-1)                               | Class A1 |
| Maximum application thickness per layer                     | 7mm      |
| <b>Consumption: 1,7kg/m<sup>2</sup> per mm of thickness</b> |          |

| Application conditions - Curing details   |                        |
|---|------------------------|
| Application temperature (ambient - substrate)   | +5°C min. / +35°C max. |
| Pot life (+25°C)  | 20-30 minutes          |
| Drying time – Light walkability (+25°C)   | 2-3 hours              |
| Minimum waiting time for tiling (+25°C)   | 6 hours                |
| <i>* Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i> |                        |

## Instructions for use

### Substrate preparation

The concrete must be min. Grade C20/25, with a tensile strength of  $\geq 1,5\text{MPa}$ , and allowed to cure for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open-textured surface and ensure optimum adhesion.

The surface must be dry and protected from rising moisture, stable, clean and free of dust, grease, oil, etc. Loose friable material must be fully removed by brushing or sanding with a suitable machine and a high suction vacuum cleaner.

The surface must be as smooth and flat as possible, as well as continuous (ie without voids, cracks etc.)

Repairs to the substrate, filling of joints, blowholes/voids and surface leveling must be carried out using appropriate repairing products, such as the repairing mortar **Neorep**<sup>®</sup>.

### Adhesion promotion

For promoting the adhesion of **Neofloor**<sup>®</sup> on cementitious substrates, it is recommended to apply an appropriate bonding slurry that consists of cement, sand, **Revinox**<sup>®</sup> and water. Alternatively, the special acrylic bonding agent **Neobond**<sup>®</sup> may be used. For non-porous stable substrates, the application of the quartz primer **Neobond**<sup>®</sup> Primer is recommended after proper surface preparation.

### Application

To the indicated amount of clean water, the respective amount of **Neofloor**<sup>®</sup> is gradually added, while stirring with a low-speed stirrer, in order to obtain a homogeneous mixture, without any lumps and with the desired workability. The mixture is left for 1-2 minutes and then applied on the surface by trowel or squeegee in the desired thickness. During the application of the self-leveling coating on the floor, the thorough use of a special spiked roller is essential, in order to release any trapped air and create a smooth coating without bubbles.

If an additional layer is needed, this should be done when the previous layer may withstand light walkability (i.e. after at least 3 hours, depending on the atmospheric conditions). If the previous layer has dried completely, priming is again required.


## Special notes

- **Neofloor®** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the curing period of the product
- Stirring of the mixture should be done mechanically and not manually with a rod, etc.
- When the mixture starts to harden, it is not recommended to add any extra water for improving its workability
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
- The freshly laid material should be protected from fast drying and exposure to the sun, rain, frost and strong wind currents
- Floors which are subject to permanent humidity should be properly waterproofed prior to the application of **Neofloor®** (e.g. by the brushable cementitious system **Neopress® Crystal – Revinex®**)
- **Neofloor®** should not be applied on metallic, wooden or asphaltic surfaces
- It is recommended to isolate the mortar from vertical surfaces

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|---|--|
| <b>Appearance</b>                             | Cementitious mortar  |
| <b>Colour</b>                                 | Grey   |
| <b>Packing</b>                                | 25kg in paper bags   |
| <b>Cleaning of tools –<br/>Stains removal</b> | By water immediately after application. In case of hardened stains, by mechanical means                |
| <b>UFI code</b>                               | JRH0-XOUT-MOON-TNDP  |
| <b>Storage stability</b>                      | 1 year, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight |

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| DoP No.: 4950-42   |      |
| <b>EN 13813 CT-C50-F10-A9-B1,5</b>   |      |
| <b>Neofloor®</b>   |      |
| Cementitious screed material for floors  |      |
| Release of corrosive substances  | CT   |
| Compressive strength   | C50  |
| Flexural strength  | F10  |
| Wear resistance  | A9   |
| Bond strength  | B1,5 |
| Reaction to fire   | A1   |

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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