

SC 100



One component cement based waterproofing mortar

- ▷ **Suitable for foundations, basements, flowerpots, etc.**
 - ▷ **Inserts and seals capillaries of the concrete**
 - ▷ **Ideal before applying thermal insulation plates**
 - ▷ **Easy to apply**
 - ▷ **Color grey and white**
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Description

SC 100 is a one component cement-based mortar composed of selected aggregates and special additives. It can be easily applied using a flat brush or spatula on both horizontal and vertical concrete surfaces with excellent adhesion on concrete, bricks, etc.

Certifications

CE Marking with Declaration of Performance (DoP) C00067-CPR-2130102 as surface protection product for concrete – coating for moisture control and increased resistivity according to EN 1504-2: MC-IR.

Typical Applications

SC 100 is suitable for waterproofing and protecting in:

- Masonry that comes into contact with the ground, such as foundations, basements, etc.
- Balconies, bathrooms before applying tiles and natural
- Masonry that comes into contact with the ground, such as foundations, basements, etc.
- To create a high sealing area before installation of insulation
- Internal waterproofing basements, subways etc.

Technical Data

Product Identification

Consistency	Powder
Color	White or Grey
Chemical base	Portland cement, quartz aggregates, special additives
Granulometry	D_{max} : 0,3 mm
Apparent weight	$1,4 \pm 0,1$ kg/L
Storage	12 months stored in a dry place in the original sealed packaging

Application Data (+23°C % & 50% R.H.)

Mixing ratio	7,0 – 8,0 L of water for 25 kg
Density of fresh mortar	$1,95 \pm 0,05$ kg/L
Pot life	$\approx 45 - 60$ minutes
Application temperature	from +8°C up to +35°C
Application thickness	Total thickness at least 2 mm, 1 mm per layer

Final Performances according to EN 1504-2:2004 & 13295:2004

	Performance	Method
Permeability to water vapour	Class I: $S_D < 5$ m	EN ISO 7783-1 & 2
Capillary absorption and permeability to water	$\leq 0,1$ Kg / m ² h ^{0,5}	EN 1062-3
Adhesion strength by pull-off test	$\geq 1,5$ N/mm ²	EN 1542
Compressive strength	≥ 20 N/mm ²	EN 12190
Flexural strength	≥ 5 N/mm ²	EN 12190
Resistance to fire	F	EN 13501-1

Application Procedure

Substrate Preparation

The application surface must be clean and solid, without cracks, free of dust, laitance, form release agents, oil, paint and rust. In applications where we have constant water infiltration from exterior (negative pressure) seal all the leakages with the cement based fast setting waterproofing product SC FAST. Always saturate the substrate with water and remove any excess in order that the substrate will be saturated, but the surface will be free of standing water.

Preparation of the mix

Mix the content of the 25kg paper bag with 7 – 8 liters of clean and fresh water with electric stirrer at low speed for 3 - 5 minutes until a perfectly smooth and homogeneous mix free of lumps is obtained. Under normal conditions the mix should be applied within 45 - 60 minutes. Low temperatures extend the life of the mortar while, on the contrary, high temperatures drastically reduces pot life and workability.

Application of the mix

Application should be made in two or more layers with a total thickness of at least 2 mm. Apply a first layer with a flat brush or roller on the properly prepared surface. Apply the second coat when the first one has hardened enough. In any case the application should overlap the entire surface with a uniform thickness coat. In all critical areas, such as a floor joint with walls and vertical construction elements, the sealing zone must be reinforced using a suitable fiberglass mesh. After application, SC 100 should be left to cure in a relatively humid environment. Protect the fresh mortar from rain, frost and fast drying by suitable means.

Recommendations

- Apply only upon structurally stable and well-prepared substrate
- Avoid application under direct sun exposure or/and strong wind
- Do not add cement, gypsum, lime or other materials that might affect the properties of the mortar
- Do not apply upon PVC and bitumen membranes and in general materials which polymerize in the long run
- Do not apply in ambient temperatures less than +8°C and higher than +35°C
- Protect the application surface from rain or frost the first 24 hours
- Do not apply in swimming pools without covering with tiles or appropriate coatings
- Bonding tiles should be done with cement based adhesives categorized as C2
- For incorporating fiberglass mesh the thickness of the first layer must be 1 mm
- Do not exceed the maximum thickness per layer
- Do not apply in total thickness less than 2 mm
- It is recommended that the application be made by a professional

Consumption

The consumption of SC 100 is 1,5 kg/m² per mm of thickness. This consumption does not include additional consumption due to rough or porous substrate.

Cleaning

Due to the increased adhesion of SC 100 it is recommended to clean tools before the material starts to set. Once the material has dried, cleaning can be done only by mechanical means.

Storage

SC 100 remains stable for 12 months from the production date stored in a dry place and protected from humidity, frost and direct sunlight.

Packaging

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. 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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