



# SC ELASTIC

## Cementitious mortar for waterproofing and concrete protection

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- ▷ **Suitable for waterproofing roofs, balconies, swimming pools**
  - ▷ **Excellent workability and high flexibility**
  - ▷ **High adhesion to almost all common building materials**
  - ▷ **Resistance to UV radiation with high resistance to aging**
  - ▷ **Protects concrete from carbonization**
  - ▷ **Ideal substrate prior to PLANOCOLOR system**
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### Description

The SC ELASTIC is a cementitious waterproofing compound, modified with polymers, and consists of suitable granulometry aggregates along with special additives. It is easily applied using a brush, roller, or spatula, providing excellent adhesion on both horizontal and vertical concrete surfaces, as well as on non-absorbent surfaces such as existing coatings of ceramic tiles, marble, etc.

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### Certifications

CE Marking and Declaration of Performance C00068-CPR-2130702 according to EN 1504-2:2004 as surface protection product for concrete – coating for ingress protection, moisture control and increasing resistivity.

It also holds certification for resistance against carbonation of concrete from a notified laboratory in Prague. Certificate No 010-034091

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### Typical Applications

SC ELASTIC is suitable for waterproofing and protecting in:

- Reinforced concrete in a highly corrosive environment such as bridges and structures near the sea while increasing resistance to carbonization
- Concrete and cement-based surfaces such as roof tops, terraces and surfaces exposed to weather conditions
- Masonry that comes into contact with the ground, such as foundations, basements, flowerpots, etc.
- Swimming pools, balconies, bathrooms, wet areas and external floorings prior to application of tiles, natural stones as well as the PLANOCOLOR GRANIT, MICRO CEMENT and TERRAZZO (micro pebble coatings).
- Masonry materials, such as gypsum boards, cement boards

## Technical Data

### Product Identification

Consistency	Powder
Color	White
Chemical base	Portland cement, quartz aggregates, special additives
Granulometry	D <sub>max</sub> : 0,3 mm
Bulk density	1,3 ± 0,1 kg/L
Storage	12 months stored in dry place in the original sealed packaging

### Application Data (+23°C % & 50% R.H.)

Mixing ratio	4,0 – 6,0 L of water for 20 kg
Density of fresh mortar	1,55 ± 0,1 kg/L
Pot life	≈ 45 -60 minutes /20°C
Application temperature	from +8°C up to +35°C
Walkability	After 2- 5 hours
Application thickness	Total thickness at least 2 mm, 1 mm per layer
Shore D	65± 2

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

	Performance	Method
Permeability to water vapour	S <sub>D</sub> ≈ 3 m	EN ISO 7783-1 & 2
Capillary absorption and permeability to water	≤ 0,02 Kg / m <sup>2</sup> h <sup>0,5</sup>	EN 1062-3
Adhesion strength by pull-off test	≥ 2 N/mm <sup>2</sup>	EN 1542
Resistance to carbonation	pass	EN 13295
Resistance to fire	F	EN 13501-1

## Application Procedure

### Substrate Preparation

The cementitious substrates should be compact, free from cracks, and clear of dust, salts, fats, or any other materials that could reduce the adhesion of SC ELASTIC. Carbonated or generally weak concrete or cementitious substrates should be removed until the substrate is compact and coarse with a minimum tensile strength of  $> 1.5 \text{ N/mm}^2$ . Repairs, where needed, should be carried out using NOVAMIX RUST CONVERTER, NOVAFER, and RC 340. Existing cracks in the substrate should be bonded using the two-component epoxy adhesive NOVAMIX EPO FLUID. In applications where water ingress occurs (negative pressure), it is necessary to first seal the leaks using the fast-setting waterproofing agent NOVAMIX SC FAST. In cases where the application is on absorbent substrates such as concrete, cementitious coatings, etc., in high temperatures, thorough wetting of the substrate should precede the application, avoiding the presence of stagnant water.

Existing floor and/or wall coverings such as ceramic tiles, granite tiles, marbles, mosaics, etc., must be securely fixed to the substrate and free from any residues that may affect adhesion. If necessary, clean the surface according to the type of surface dirt using ALCALINE CLEANER or ACID CLEAN TURBO and rinse with clean water. For more information, refer to the respective Technical Data Sheets of the products.

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### Preparation of the mix

Add the 20kg powder into a suitable container containing 4 – 6 liters of clean water, while stirring. Mix with an electric mixer at low speed (500 RPM) for 3 - 5 minutes until achieving complete homogenization of the mixture without lumps. For small quantities, mixing can be done by hand. The mixture is now ready for use.

The mortar should be applied under normal conditions within 45 – 60 minutes from the start of mixing. After this period, do not attempt to re-mix it with water. Low temperatures extend the working time of the mortar, while high temperatures drastically reduce workability.

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### Application

The mixture should be applied in at least two layers using a flat brush, roller, or even a spatula on a properly prepared surface. The total application thickness should not be less than 2 mm. For better thickness control, it is recommended to embed a suitable alkali-resistant fiberglass mesh such as NOVAMIX FIBERGLASS NET in the first layer of the mortar while it is still wet and smooth the surface with a metal spatula.

The application should cover the entire surface with a uniform thickness. Allow each previous layer to harden before applying the next one. In all critical areas, such as the floor-to-vertical surface junction, the waterproofing zone should be reinforced using an appropriate fiberglass mesh. After applying SC ELASTIC, allow it to cure in a relatively humid environment. Protect the wet mortar from rapid drying with suitable means.

## Recommendations

- Apply only on structurally stable and prepared substrates
- Avoid application under direct sunlight and/or strong wind
- Do not add water, cement, gypsum, lime, or any other materials that may affect the properties of the mortar
- Do not apply on PVC membranes, asphalt sheets, or other materials that polymerize long-term
- Do not apply at substrate and ambient temperatures below +8°C and above +35°C
- Protect from rain or frost for the first 24 hours
- Do not apply in pools without a proper coating
- Use cementitious adhesives of category C2 for tile installation
- For mesh incorporation, the thickness of the first layer should be at least 1 mm
- Do not apply to a total thickness less than 2 mm
- Do not saturate between layers
- Professional application is recommended

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## Consumption

The consumption of SC ELASTIC is 1,2 kg/m<sup>2</sup> per mm of thickness. This consumption does not include additional consumption due to rough or porous substrate.

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## Cleaning

Due to the increased adhesion of SC ELASTIC 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.

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## Storage

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

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## Packaging

Paper bags of 20 kg and plastic buckets of 5 kg

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## 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.

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## 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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For the latest and valid version of the Technical Data Sheet, the user of the material must refer to our website [www.novamix.gr](http://www.novamix.gr) or directly to the QR Code of the product.



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