SC ELASTIC

One component cement based waterproofing mortar

- **Protects concrete from carbonization**
- **Suitable for waterproofing roofs, balconies, bathrooms**
- **Excellent workability and high flexibility**
- **High adhesion to almost all common building materials**
- **Suitable for tanks and swimming pools**
- **Ideal substrate prior to PLANOCOLOR CEMENT & GRANIT application**

Description

SC ELASTIC 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. Its special synthesis protects from humidity and significantly increases concrete's resistance to carbonation.

Certifications

Meets the requirements claimed by EN 1504-9 as surface protection one component cementitious product with Declaration of Performance (DoP) C00068-CPR-1630701 according to EN 1504-2 as coating for intended use in concrete surface protection by protection against ingress; moisture control and increasing resistivity methods certified by notified body 1128 and issued the certificates of conformity of the factory production control No. 1128-CPR-0416/1 and EN 13295 certified by 1020 No. 010-034091.

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, flower pots, 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).

Technical Data

Product Identification	
Consistency	Powder
Color	White
Chemical base	Portland cement, quartz aggregates, special additives
Granulometry	D_{max}: 0,3 mm
Apparent weight	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 minutes
Application temperature	from +8°C up to +35°C
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_D ≈ 3 m	EN ISO 7783-1 & 2
Capillary absorption and permeability to water	≤ 0,02 Kg / m^2 $h^{0,5}$	EN 1062-3
Adhesion strength by pull-off test	≥ 2 N/mm^2	EN 1542
Compressive strength	≥ 20 N/mm^2	EN 12190
Flexural strength	≥ 7 N/mm^2	EN 12190
Resistance to carbonation	pass	EN 13295
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. Carbonized and degraded concrete should be removed till we obtain a solid and healthy substrate. If required repair by using RUST CONVERTER, NOVAFER and RC 340. Existing cracks on the substrate should be bonded by using the two component epoxy adhesive EPO FLUID. 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 20kg bag with 4 – 6 liters of clean and fresh water with electric stirrer at low speed (500 rpm) 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

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. For better thickness control, it is recommended to incorporate a suitable alkaline fiberglass mesh such as NOVAMIX FIBERGLASS NET on the first layer of the mortar while it is still fresh and smooth the surface with a metallic spatula. 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 by the use of a suitable fiberglass mesh. After application, SC ELASTIC 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 ran
- 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
- Do not wet between the layers
- It is recommended that the application be made by a professional

Consumption	The consumption of SC ELASTIC is 1,2 kg/m^2 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 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.
Storage	SC ELASTIC remains stable for 12 months from the production date stored in dry place and protected from humidity, frost and direct sunlight.
Packaging	Paper bags of 20 kg and plastic buckets of 5 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.
Warning	The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above-mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason, anyone interested of using the product must be sure beforehand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. For the latest and valid version of the Technical Data Sheet refer to use website www.novamix.gr or directly to the following QR code of the product.

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