



**Cimar**<sup>®</sup>  
produzione s.u.r.l.

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MAGIKA (Solvent-based elastomeric sheath)

TECHNICAL DATA SHEET

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### 1. SUBSTANCE/MANUFACTURER IDENTIFICATION

Trade name: Magika (Solvent-based elastomeric liquid sheath)  
Further denomination : Elastic waterproofing paste based on elastoplastic copolymer.  
Producer : Cimar Produzione Surl with plant in Salerno at via Mecio Gracco 8H/8I.  
Telephone number also for urgent calls: Tel +39 089.302418

### 2. CHARACTERISTICS AND USES

MAGIKA is an innovative product made of a special elastoplastic copolymer that allows to realize waterproofing with high mechanical resistance, exceptional cold flexibility and a remarkable adhesion on different types of supports. The product is single-component, solvent-based, ready to use and available in different colors.

Its peculiarity is that it has high cold flexibility and is resistant to very low temperatures, down to -40 °C. Its excellent characteristics of resistance to water stagnation allow its application even on flat surfaces, without suitable slopes to ensure the regular flow of rainwater.

Using this particular copolymer to formulate MAGIKA you get a product with a specific rheology, in fact its consistency is completely innovative, differentiating it from all other liquid sheaths on the market: the tools in the case of MAGIKA must be used to "distribute" the product on the support to be treated. If a different fluidity is required, it can be diluted using the specific KSOL thinner from 5% up to a maximum of 20%. MAGIKA, unlike products obtained with hygro primed polymers, does not react with atmospheric humidity and can be applied even at very high humidity levels, even higher than 85%, with appropriate drying speed. Consequently, you are not obliged to use it completely once the container has been opened. MAGIKA is suitable for waterproofing concrete substrates such as solar paving, flat or sloping roofs and fiber cement sheet roofs; it can be used for waterproof protection of metal structures as well as for the external coating of metal tanks. It can also be used for the recovery as well as for the restoration of the impermeability of old bituminous coverings.

It can be applied even at temperatures lower than 0 °C, up to - 5 °C; it is characterized by a high resistance to UV rays. Suitable to waterproof again tiled supports without removing them. Suitable for the realization of waterproofing of roof gardens/green roofs, flower boxes as well as tanks and fountains.

#### PERFORMANCES:

- Waterproof protection.
- Anti-carbonating protection against the degradation of reinforced concrete.
- Monocomponent product, ready to use, easy to apply.
- Once the package is opened, if not completely used, it can be re-closed and stored until further use.
- Applicable even at temperatures below 0 °C, down to - 5 °C.
- Greater protection from heat and sunlight with its specific white version that helps save energy.
- High resistance to UV rays, does not require any final protective layer.
- Not subject to crocodile phenomena when applied on bitumen-polymer membranes.
- Applicable also on flat substrates without regular slope, thanks to its superior property of resisting water stagnation phenomena.
- It can be applied cold, avoiding the use of flames and heat sealing equipment.
- Reduced dirt pick-up.
- Resistant to light rain and washout already after 1 hour from application (at +8°C with max 80% R.H.).

Working temperatures: -40°C to 90°C.

### 3. LIQUID PRODUCT IDENTIFICATION FEATURES

Appearance: Very viscous paste                      Specific weight =  $1.1 \pm 0.05 \text{ Kg/dm}^3$                       Dry residue =  $55 \pm 2\%$ .  
VOC content as foreseen by the legislative decree of 27/05/2006 n°161: 750 g/l of product ready to use  
VOC content in the product: 550 g/l of product ready for use

#### 4. DRYING OR CURING AT 23°C AND 50% UR

To touch: 1 hour Complete drying: 8 hours

#### 5. CHARACTERISTICS OF THE DRIED PRODUCT

Cold flexibility: - 40 °C                      Elongation at break: 500 %                      Thickness of dried film (2kg/sqm): 1 mm

#### 6. EQUIPMENT

Apply by brush, trowel, roller or spray (airless).

#### 7. PRELIMINARY TREATMENT OF THE SUPPORT AND APPLICATION

Thoroughly clean the substrate by removing dust, crumbling and loose parts, oils, greases and anything else that may affect adhesion. All substrates must be dry and not subject to rising damp and/or evaporative flows, cohesive and correctly finished. Provide for the treatment of any joints with appropriate techniques: control and insulation joints must be treated beforehand with the appropriate sealant.

- Cementitious substrates: apply an undercoat of MAGIKA diluted at 50% with KSOL with a consumption of about 250-300 g/m<sup>2</sup> .
- Metallic substrates: after treating any rust spots, apply MAGIKA diluted at 50% with KSOL with a consumption of about 150 g/m<sup>2</sup> .
- Old bitumen-polymer membranes: on smooth MBP, MAGIKA can be directly applied without the use of a primer, making sure that they are properly cured (minimum 6 months). Bitumen-polymer membranes with repetition phenomena and/or not adhering to the surface must be treated beforehand. On membranes self-protected with slate granules, apply a first coat of MAGIKA diluted at 50% with KSOL with a consumption of about 250/300 gr/m<sup>2</sup> .
- Wooden substrates: clean carefully removing dust, loose parts and delaminating flakes. The surface must be cohesive and stable: pre-treat by applying a base coat of MAGIKA diluted 50% with KSOL with a consumption of about 250-300 g/m<sup>2</sup> , depending on the substrate absorption. On already impregnated supports, perform an appropriate abrasion. During the waterproofing phase, use POTENZIO tissue between the first and second coat.
- Polycarbonate sheets: provide for proper cleaning, removing dust and any loose parts. Lightly abrade the substrate before application.
- Synthetic sheets: provide for a careful cleaning of the substrate to be treated and check the state of the welding of overlaps and flaps. On TPO/EPDM sheets it is possible to work directly. On PVC sheets it is necessary to pre-treat with a coat of MAGIKA primer diluted 50% with KSOL and applying a consumption of about 200 g/m<sup>2</sup> . It is advisable to carry out a preliminary test in order to evaluate the application compatibility. For PVC sheets, given their heterogeneity, the test is mandatory.
- Existing tiled substrates: it is recommended to check the state of the joints, remove and restore the coverings or the parts of the flooring that are detaching. Pre-treat by applying MAGIKA diluted at 50% with KSOL at a consumption of 300 gr/m<sup>2</sup> .
- Green roofs: on concrete substrates to be used as green roofs/roof gardens, provide careful dust removal, eventual levelling in presence of very rough castings, gravel nests and/or pitting, in order to guarantee the maximum yield of the treatment to be carried out. Apply a base coat of MAGIKA diluted at 50% with KSOL applying a consumption of about 250-300 gr/m<sup>2</sup> .

#### APPLICATION:

To make a new waterproofing apply at least 2 layers with a total consumption of at least 2 Kg/m<sup>2</sup> . We recommend the use of POTENZIO Tissue reinforcement of 70 gr/m<sup>2</sup> and/or Potenzio Bandella in all cases where mechanical stresses may deteriorate the waterproofing layer. In the case of GREEN ROOF waterproofing, use the specific MAGIKA root-proof version. Provide, before the positioning of the cultivation soil, suitable draining layers. In case of re-waterproofing of synthetic sheets, use POTENZIO non-woven fabric on the first coat of MAGIKA. After complete drying of the first layer, apply the second one. For the application of MAGIKA it is possible to use airless, rollers and brushes for solvent-based enamels.

## 8. STORAGE INSTRUCTIONS/PACKAGING/COLORS

Keep the product in dry and well ventilated places, storing it at temperatures above 0 °C  
Stability in original packaging : 12 months Packaging : 5 Kg- 18 Kg Available colors: red, gray, white, aluminum.

## 9. WARNINGS

- If applied on cementitious surfaces, wait until it has fully cured, avoiding use on substrates that are not dry and/or subject to rising damp and/or evaporation flows. If necessary, use the specific breather. - In case of application on bitumen-polymer membranes, wait for the complete curing and / or maturation, but not less than 6 months. - On substrates where there are traces or residues of bitumen, the color of MAGIKA may change, as well as potential phenomena of detachment. - Stir MAGIKA before use and apply at temperatures between -5 °C and +35 °C, avoiding application during the hottest hours of the day and on excessively exposed substrates, both before and during application. - Do not apply in case of imminent rain. - If used for works implying continuous immersion, check beforehand the type and aggressiveness of the liquids contained. Provide for the use of our transparent polyurethane product POLISUPER in order to increase the chemical resistance to possible aggressive agents. - The aesthetic level of the finish may vary depending on the application method. - Rollers, brushes and tools used for the application of the product can be cleaned with white spirit or with the specific KSOL thinner. Safety instructions: see relevant safety data sheet.

*The information contained in this prospectus is, to the best of our knowledge, exact and accurate, but any recommendation and suggestion given is without any guarantee as the conditions of use are not under our direct control. In case of doubts it is always advisable to do some preliminary tests and/or ask for the intervention of our technicians. The company Cimar Produzione surl reserves the right to modify, substitute and/or eliminate articles, as well as to vary the data of the products reported in this prospectus, without any notice; in this case the indications reported here could be no longer valid.*