



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

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MAGIKA (Solvent-based elastomeric resin)	TECHNICAL DATA SHEET
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#### 1 IDENTIFICATION OF THE SUBSTANCE/COMPANY

Trade name: Magika (solvent based elastomeric liquid resin)  
Additional denomination : Elastoplastic copolymer based waterproofing paste  
Producer : Cimar Produzione Surl with plant in Salerno, via Mecio Gracco 8H/8I.  
Telephone number also for urgent calls: Tel +39 089.302418

#### 2. CHARACTERISTICS AND USES

MAGIKA is an innovative product consisting of a special elastoplastic copolymer that makes it possible to create waterproofing with high mechanical strength, exceptional cold flexibility and excellent adhesion on various types of substrates. The product is single-component, solvent-based, ready-to-use and available in various colours. Its special feature is that it has high cold flexibility and is resistant to very low temperatures down to -40 °C. Its excellent resistance to water stagnation means that it can also be applied to flat surfaces without suitable slopes to ensure regular rainwater run-off.

The use of this special copolymer to formulate MAGIKA results in a product with a unique rheology; its consistency is indeed completely innovative, so that it differs from all other acrylic waterproofers on the market.

If a different fluidity is required, it can be thinned using the specific KSOL thinner from 5% up to a maximum of 20%. MAGIKA, unlike products made from 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 times. Consequently, you are not obliged to use it completely after opening the container.

MAGIKA is suitable for waterproofing concrete substrates such as solar paving, flat or pitched roofs and fibre cement sheet roofs; it can be used for waterproofing metal structures as well as for the external coating of metal tanks. It can be used for the recovery as well as the restoration of the waterproofing of old bituminous coverings.

It can be applied even at temperatures below 0 °C, down to - 5 °C; it is characterised by high UV resistance. Suitable for re-waterproofing tiled substrates without removing them. Suitable for waterproofing roof gardens, green roofs, flower boxes, pools and fountains.

##### PERFORMANCES:

- Waterproof protection. - Anti-carbonating protection against degradation of reinforced concrete. - Single-component product, ready to use, easy to apply.
- Excellent reflectivity and therefore heat dissipation from solar radiation in the aluminium and white versions, which means considerable energy savings. - High resistance to UV rays, no final protective coat required. - Not subject to "crocodile" phenomena when applied to bitumen-polymer membranes. - Can also be applied to flat substrates with no regular slope, thanks to its superior resistance to water stagnation. Not due to its qualities when immersed in water. - 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 after application (at +8 °C with max. 80% R.H.).

Working temperatures: -40°C to 90°C.

#### 3. IDENTIFICATION CHARACTERISTICS OF THE LIQUID PRODUCT

Appearance: Very viscous paste      Specific weight =  $1.1 \pm 0.05 \text{ Kg/dm}^3$       Dry residue =  $53 \pm 2\%$ .  
VOC content as required by legislative decree no. 161 of 27/05/2006: 750 g/l of product ready for 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 the touch: 1 hour      Complete drying: 8 hours

#### 5. CHARACTERISTICS OF THE DRIED PRODUCT

Cold flexibility: - 40 °C  
Elongation at break: 600 %      Thickness of dried film (2kg/sqm): 1 mm

## 6. EQUIPMENT

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

## 7. PRELIMINARY TREATMENT OF THE SUBSTRATE AND APPLICATION

Thoroughly clean the substrate, removing dust, loose and incoherent parts, oil, grease and anything else that may affect adhesion. All the substrates must be dry and not subject to rising damp and/or evaporation flows, cohesive and correctly finished. Any joints must be treated with suitable techniques: control and insulation joints must be treated beforehand with a suitable sealant.

Application of primer before the product is applied:

- Cementitious substrates: apply an undercoat of MAGIKA diluted at 50% with KSOL with a consumption of about 250-300 g/m<sup>2</sup>.
- Metal substrates: after treating any rust spots, apply MAGIKA diluted at 40% 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 and/or non-adhesion to the surface must be treated beforehand. On membranes self-protected with slate granules, apply a first coat of MAGIKA diluted at 40% with KSOL at a consumption of about 250/300 g/m<sup>2</sup>.
- Wooden substrates: clean thoroughly, removing dust, loose parts and delaminating flakes. The surface must be cohesive and stable: pre-treat by applying a base coat of MAGIKA diluted 40% with KSOL with a consumption of about 250-300 g/m<sup>2</sup>, depending on the absorption of the support. On already impregnated supports carry out an appropriate abrasion. During the waterproofing phase, use tissue POTENZIO between the first and second coat.
- Polycarbonate sheets: provide for suitable cleaning, removing dust and any loose parts. Lightly abrade the substrate before application.
- Synthetic sheets: carefully clean the substrate to be treated and check the state of the welds 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 primer coat of MAGIKA diluted at 40% 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 assess the application compatibility. For PVC sheets, due to 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 40% 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, carefully remove dust and, if necessary, smooth over very rough castings, gravel nests and/or pitting, in order to ensure maximum yield from the treatment to be carried out. Apply an undercoat of MAGIKA diluted 40% with KSOL at a consumption of approximately 250-300 g/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 g/m<sup>2</sup> and/or Potenzio Bandella in all cases where mechanical stresses may deteriorate the waterproof covering. In the case of GREEN ROOF waterproofing, use the specific MAGIKA version, root-proof version. Ensure that suitable drainage layers are in place before the cultivation soil is placed. If synthetic sheets are to be re-waterproofed, use POTENZIO tissue on the first coat of MAGIKA. After complete drying of the first coat, apply the second one. It is possible to apply MAGIKA with airless equipment and with rollers and brushes for solvent-based enamels.

## 8. STORAGE INSTRUCTIONS/PACKAGING/COLOURS

Store the product in dry and well ventilated places, at temperatures above 0 °C.

Stability in original packaging : 12 months      Packaging : 5 Kg- 18 Kg      Colours: red, grey, white, aluminium.

## 9. WARNINGS

- If applied on cementitious surfaces, wait for it to cure completely, avoiding use on substrates that are not dry and/or subject to rising damp and/or evaporation flows. If necessary, use the specific breather. - If applied to bitumen-polymer membranes, wait until it has fully cured and/or matured, and in any case for at least 6 months. - On substrates with traces or residues of bitumen, MAGIKA may change colour and become detached. - 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 involving continuous immersion, check in advance the type and aggressiveness of the liquids contained. Consider the use of our transparent polyurethane product POLISUPER in order to increase chemical resistance to any aggressive agents. - The aesthetic level of the finish may vary depending on the application method. - Rollers and brushes as well as 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 brochure is, to the best of our knowledge, accurate and correct, but any recommendations and suggestions given are without warranty as the conditions of use are not under our direct control. In case of doubt it is always advisable to carry out 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 shown in this prospectus, without any prior notice; in this case the indications given herein may no longer be valid.*