



Very  
High  
Durability  
Repair &  
Prevention  
System



Certified Quality System since **FEBRUARY 1993**

*From Project to Jobsite*

## ELASPLAST 28 MuCis®

**TWO-COMPONENTS CEMENT BASED ELASTOMERIC MEMBRANE FOR ELASTOPLASTIC JOINTS AND COATINGS WITH WATERPROOFING, ANTICORROSION, NO TOXIC, FLEXIBLE, ANTICRACK PROPERTIES**

**CE approved – Certificato n. 1305 - CPD - 0808  
EN 1504-2 prospetto ZA.1d**

**Description** The component A in powder with special cements and additives properly selected which catalyze and take part to the polymerization of liquid component B to obtain protective, waterproofing and elastoplastic coating. The flexible membrane contains corrosion inhibitors MuCis® - Multiple Corrosion Inhibiting Synergies.

**Advantages and characteristics** Wherever a protective, flexible, waterproofing and anti-corrosion coating is required.

- Waterproofing under tiles on balconies and terraces.
- Essential part of TERRAZZO SYSTEM (see the relative brochure).
- Waterproofing and anti-corrosion protection of all reinforced concrete structures, having the ability to bridge all existing or coming-cracks.
- Waterproofing of roof-covers in concrete, in civil applications or in industrial ones not subjected to foot traffic.
- Particularly recommended for vertical finishing / application.
- To seal joints between different building materials: it adheres to concrete, mortars, stone, metal, bricks, etc.
- Waterproofing / adhesive of tiling.
- Waterproofing in positive pressure.
- The inhibitor MuCis®, protect the steel against oxidation by direct contact, or by migrating thorough the concrete structure (MuCis® joins and protect the reinforcement steel inside the structure)

**Method of use** **Preparation of the substrate**

The surfaces of the support have to be free from friable parts or dust, deposits, greases, oils and water stagnation points.

Remarks: in case of supports with high porosity and evident faults on the surface, we suggest a previous finishing by BS-38 bicomponent, in order obtaining good aesthetical finishing. Such use is particularly recommended in the waterproofing and tiling of balconies and terraces in order to obtain a good planarity of the support before the application of ELASPLAST 28 MuCis®.

**Primerization**

Apply by brush or roller Primer SB MuCis® (solvent based) or Primer WB MuCis® (water based) depending on the climate conditions (type SB is recommended in case of low temperatures and high humidity).

**Preparation of MuCis® ELASPLAST 28: 1 can liquid + 1 bag powder**

Pour first the liquid component (**kg. 6,5**) in the mixing recipient and add gradually the powder (**kg. 25**) while mixing till a smooth slurry is obtained.

**Application 1<sup>st</sup> layer:** apply by trowel to 1 mm thickness.

**Application 2<sup>nd</sup> layer:** apply the second layer, 1 mm thick, when the first layer is completely dry .

**Surface smoothening**

If an aesthetical finish is required, the second layer can be smoothed by using a sponge, soaked in water. Float carefully the fresh application in gentle rotation movements (remove the residues in the sponge time to time). Do not apply on hot substrates; especially not under direct sunlight and in summer weather. It may be required to moisten the surfaces to lower temperatures. Do not apply on excessively wet substrates or when raining.



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### Remarks Humid/cold climates :

In order to obtain the best performances, the product needs to release water in the ambient (evaporation) or in the materials of contact (for substrate suction, tiles, etc.): only in this way the filmation/polymerization process can be completed. Therefore avoid the application on humid substrates particularly in humid and/or cold weather conditions. Avoid applications at temperature lower than +5°C and with relative humidity >80%.

### Hot/dry climates :

In case of hot weather conditions (particularly if dry and/or if packaging are warmed up by direct sun) the evaporation of mixing water and the water absorption in the reactions of hydration and accelerate so that they make the application difficult or sometimes impossible for slurries not enough flowing. In these conditions it is recommended to add from 0,5 up to 1 liter of water (or more, sometimes) for each can of 6,5 Kg. in order to compensate the evaporated and consumed water.

**Storage:** The product can be kept for at least 12 months if stored in dry and protected conditions, in the original packaging, between +5°C and +35°C.

Do not use the content of opened bags if lumps occur. Avoid the freezing of liquid Component.

**Packaging** Component A (powder) bag of 25 kg + component B (liquid) can of 6,5 kg.

### Characteristic technical data (typical values)

|  |                       |                      |
|--|-----------------------|----------------------|
| • Apparent density:                                  | Kg/l                  | 1,65                 |
| • Crack bridging capacity                            | mm                    | Up to 1              |
| • Water permeability                                 | bar                   | Impermeable till 1,5 |
| • Water vapour permeability                          | μ                     | 100÷140              |
| • Setting time :                                     | hours                 | About 3 (20°C)       |
| • Elongation   | %                     | 20                   |
| • Adhesion to the substrate                          | N/mm <sup>2</sup>     | 1,0                  |
| • Resistance to CO <sub>2</sub> penetration          | μ                     | 45.000÷60.000        |
| • Consumption  | Kg/m <sup>2</sup> /mm | ~ 1,69               |
| • Waterproof in positive pressure                    |                       | 290 Kpa              |
| • Waterproof in negative pressure                    |                       | 120 Kpa              |
| • Waterproof in negative pressure on crack of 0,4 mm |                       | 40 Kpa               |

**Safety indications** Read carefully the safety indications on the packaging, or consult the relevant Material Safety Datasheet of this product

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site [www.tecnochem.it](http://www.tecnochem.it) where you can find the same technical data sheet updated in real time.

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Nr. rev.: 7

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