



Very  
High  
Durability  
Repair &  
Prevention  
System



Certified Quality System since **FEBRUARY 1993**

*From Project to Jobsite*

## ELASPLAST 25 MuCis®

**TWO-COMPONENTS CEMENT BASED ELASTOMERIC MEMBRANE FOR ELASTOPLASTIC, WATERPROOFING, ANTI-CORROSION, NO TOXIC, FLEXIBLE, ANTISHRINKAGE JOINTS WITH MAXIMUM CRACK-BRIDGING AND ELONGATION PROPERTIES**

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

**Description** Component A powder is based on special cements and selected additives which catalyse and participate in the polymerisation of the component B to obtain an elasto-plastic waterproofing and protective membrane. The flexible membrane contains corrosion inhibitors MuCis® - Multiple Corrosion Inhibiting Synergies.

**Advantages and characteristics** Where a protective, crack-bridging membrane is required with maximum elongation, waterproofing and anti-corrosion properties :

- Waterproofing under tiles on balconies and terraces
- Essential part of the TERRAZZO SYSTEM (see index).
- Waterproofing and anti-corrosion protection of all reinforced concrete structures, having the ability to bridge all existing or coming-cracks.
- Non-trafficed waterproofing of roof-covers in concrete, in civil applications, or industrial.
- Specially advised for vertical applications.
- To seal joints between different building materials: adheres to concrete, mortars, stone, metal, bricks,..etc.
- Waterproofing / adhesive of tiling.
- Waterproofing in positive pressure.

The inhibitor MuCis® as admixture, protect the steel against oxidation by direct contact, or by migrating through the concrete structure (MuCis® joins and protect the reinforcement steel inside the structure).

**Method of use** Preparation of the substrate

The support has to be free from friable parts or dust, deposits, fats, oils and water stagnation points.

NOTE: in case of supports with high porosity and clear superficial faults we suggest a previous finish with BS 38 MuCis® two-components. 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 25 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 ELASPLAST 25 MuCis® : 1 can liquid + 1 bag powder

Pour first the liquid component (**kg. 10**) in the mixing recipient and add gradually the powder (**kg. 25**) while mixing till a smooth slurry is obtained.

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

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

Do not apply on hot supports particularly if exposed to direct sunlight and in summer conditions. If necessary, lightly wet the surfaces in order to lower the temperatures. Do not apply on surface in the rain or excessively wet.



Very  
High  
Durability  
Repair &  
Prevention  
System



Certified Quality System since **FEBRUARY 1993**

## From Project to Jobsite

### 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 10 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** Bags of 25 Kg + can of 10 Kg; bags of 12,5 + can of 5 Kg

### Characteristic technical data (typical values)

|  |                       |                     |
|--|-----------------------|---------------------|
| • Apparent density:                                  | Kg/l                  | 1,6                 |
| • Crack bridging capacity                            | mm                    | up to 1-1,5         |
| • Water permeability                                 | bar                   | impermeable up to 2 |
| • Water vapour permeability (DIN 52615)              | μ                     | 190÷400             |
| • Setting time :                                     | hours                 | 4                   |
| • Consumption  | Kg/m <sup>2</sup> /mm | ~ 1,64              |
| • Colour   |                       | ivory white         |
| • Modulus of elasticity                              | MPa                   | 10                  |
| • Adhesion to substrate                              | N/mm <sup>2</sup>     | > 1,5               |
| • Elongation   | %                     | 30                  |
| • Resistance CO <sub>2</sub> penetration             | μ                     | 62.000÷135.000      |
| • Waterproof in positive pressure                    |                       | 450 Kpa             |
| • Waterproof in negative pressure                    |                       | 190 Kpa             |
| • Waterproof in negative pressure on crack of 0,4 mm |                       | 65 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.

Emission date : 01/2006  
Revision date: 06/2013

Nr. rev.: 9

ELASPLAST 25 MuCis®  
pag. 2/2