



Systems for
Waterproofing,
dehumidification,
wetproofing



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

ELASPLAST ROL 10 MuCis®

TWO-COMPONENTS CEMENT BASED ELASTOMERIC MEMBRANE, FOR ELASTOPLASTIC, WATERPROOFING, ANTI-CORROSION, FLEXIBLE, ANTI-SHRINKAGE JOINTS AND COATINGS APPLICABLE BY ROLLER, BRUSH OR TROWEL

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

Description ELASPLAST ROL 10 MuCis® 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 for positive and negative water pressure. The flexible membrane contains corrosion inhibitors MuCis® - Multiple Corrosion Inhibiting Synergies.

**Advantages/
fields of use**

- Applicable by brush, roller as by trowel.
- Waterproofing for positive pressures (> 3 bar) and negative water pressure (~1,5 bar)
- The product has crack bridging properties to cover a crack of about 1mm.
- The elasticity is held until a temperature of -10°C
- Optimal adhesion at a sound and good substrate.
- The product can be applied at all conditions $\geq 5^{\circ}\text{C}$ unless it is freezing or windy rain conditions.
- It protects the steel reinforcement by means of the anticorrosion systems MuCis®

**Indicated
use**

- Underground foundation walls
- Green roofs
- Sidewalks, porches
- Water-ducts
- Basins, terraces, flat roofs, under tiles
- Basements
- Bathrooms, showers
- Reservoirs
- Flower baskets
- Flat roofs
- Protection of concrete and mortar
- Underground or above ground pools
- Underground areas
- Water purifiers

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Method Preparation of the substrate

of use Verify the suitability of the substrate and structure first for hydrostatic pressures. In case of waterproofing tanks or reservoirs, do a pre-load test first. The support has to be free from friable parts or dust, deposits, greases, oils and water stagnation points. If needed sandblast the support before application of the product.

In case of supports with high porosity and clear superficial faults we suggest a previous finish with BS 38 MuCis®.

Remove distance holders and repair the surface with BS 38 MuCis® (accelerated set) or TECNOSTOP (instant set).

In case of very porous, old substrates a preventive application of PRIMER SB MuCis® (150-250 gr/m²) can be done. Avoid applications on hot substrates or under windy rain conditions.

For an optimum adhesion the use of Primer SB is recommended. If the support is wet avoid any standing water on the surface. The angles, dilatation joints, big cracks, have to be covered with RONDOLAST.

Mixing

Add powder component A to liquid component B while mixing continuously with a suitable mechanical mixer at low speed until a homogenous and lumpfree mixture is obtained.

Application

Apply ELASPLAST ROL 10 MuCis®, by roller, brush or trowel* in two layers. The first layer should be about 1 mm = 1,5-2 Kg/m² for a uniform adhesion and covering. In case of fast drying of the product on the support it means that the support is too dry and needs humidified before further applications.

The second layer can be applied 6 hours after the first and again for a thickness of about 1 mm (1,5-2 kg/m²)

The film forming process between the 2 components should be complete in not less than 7 days.

NOTE: Applications for spraying large surfaces must be performed by experienced personnel and adequate equipment and nozzles. There should always be maximum continuity of the product at the spray nozzle, without slowing down or stopping, to avoid accumulation which is difficult to correct.*

The appearance after the spray is "rustic." Many users prefer the application by smooth trowel, width 50 cm even for large surfaces.

Note: the product can be spray applied with appropriate equipment (mixer, pump, compression pressure, nozzles etc...The Office for Project Promotion and Assistance is available for any assistance).

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 litre of water (or more, sometimes) for each can of 8,25 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 the powder is lumpy. Keep the liquid Component away from frost.

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Packaging Bags of 25 Kg + pails of 8,25 Kg

COMPARISON PERFORMANCE AND REQUIREMENTS

STANDARD EN 1504-2

Performance characteristics	Testing method	Requirements	RESULT
		Table ZA.1d	(Typical values)
Capillary absorption and water permeability	EN 1062-3	$w < 0,1 \text{ Kg /m}^2 \cdot \text{h}^{0,5}$	$0,0082 \text{ Kg /m}^2 \cdot \text{h}^{0,5}$
Water vapour permeability	EN ISO 7783-1	class I : $s_D < 5 \text{ m}$ (permeable to water vapour)	1,22 m
CO ₂ Permeability	EN 1062-6	$s_D > 50 \text{ m}$	953 m
Adherence	EN 1542	Without traffic $\geq 0,5 \text{ N/mm}^2$	0,8 N/mm ²

Technical characteristics (typical values)

- Wet density: 1,66 Kg/lt.
- Crack bridging properties: 1 mm
- Workability time at 20 °C 30 minutes
- Elasticity modulus: $\leq 25 \text{ N/mm}^2$
- Elongation at break: ~ 22%
- Adhesion to substrate : $\geq 0,8 \text{ N/mm}^2$
- Waterproofing at positive pressure: 330 Kpa
- Waterproofing at negative pressure: 160 Kpa
- Waterproofing at negative pressure over a crack of 0,4 mm: 55 Kpa
- Operating temperature: from -10 °C to + 64 °C
- Resistance to CO₂ penetration : $\mu 60.000 \div 90.000$
- Consumption: 1,60 Kg/m²/mm

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

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