

# LASTOFLEX-MS

One component, liquid-applied, silane terminated polymer-based, roof coating which cures with the humidity of atmosphere to form a strong, elastic and impermeable to water, membrane.

## PHYSICAL PROPERTIES AND ADVANTAGES

- Easy to apply by brush, roller or airless spray.
- Long-lasting waterproofing and protection.
- Can be applied even on moist surfaces.
- Can be applied in one thick coat without bubble formation.
- Highly resistant to stagnant water. Does not peel off.
- Forms a seamless membrane without joints which is 100% bonded to the substrate. Even when damaged, water does not spread to the entire surface of the substrate, and the membrane can easily be repaired locally.
- Excellent resistance to weather conditions : rain water, frost, UV rays.
- Excellent elastic properties even at very low temperature (-40 °C). Excellent crack-bridging properties.
- Excellent thermal resistance. The membrane does not turn soft or tacky at high temperatures (+80 °C).
- Excellent adhesion on several substrates without use of primer. Special primers are available to cover almost all type of substrates.
- Water vapour permeable. Does not cause moisture accumulation on the ceiling.
- Good resistance to chemicals and detergents.
- High reflection of solar energy (only in white colour) and significant reduction of the temperature inside the building during summer.
- Free of isocyanates.
- Cost efficient.

## TECHNICAL PROPERTIES

- Density DIN EN ISO 2811-1 (21 °C) : 1,40 gr/cm<sup>3</sup>
- Temperature variations resistance : -40 to 80 °C.
- Surface membrane formation time (23 °C, 50% R.H.): 1,5 hours
- Elongation at break point (DIN 53504) : 350%
- Tensile strength (DIN 53504) : 2,20 N/mm<sup>2</sup>
- Hardness SHORE A (DIN 53505) : 50
- Water Vapour permeability (DIN EN 1931, 23 °C-0/75% R.H.) : 12,7 gr/m<sup>2</sup>/day
- Impermeability to water (DIN EN 1928, 1m water column, 24h) : Watertight

- Adhesion on concrete (with primer) :  $> 2 \text{ N/mm}^2$

## APPLICATION FIELDS

It is generally used for surface waterproofing. Due to the high hydrophobic performance of the cured membrane, **LASTOFLEX-MS** is suitable for waterproofing surfaces with stagnant water, roofs, terraces, flowerbeds, roofs with polyurethane insulation foam, etc. **LASTOFLEX-MS can also adhere on moist substrates without the use of a primer.**

## APPLICATION INSTRUCTIONS

### Weathering conditions:

Rainy weather should be avoided.

### Preparation :

The application surface must be clean from loose particles, dust, oil, etc. Old coatings should be removed. Joints and cracks should be sealed with **ELASTOSEAL-PU** or **ELASTOBOND** joint sealant.

### Priming :

**LASTOFLEX-MS** can also be applied without the use of a primer. However, the use of **Primer VL** is recommended in order to improve the mechanical properties of the surface of the concrete. For application on top of bitumen-based coatings or bitumen felts, it is suggested to use **Primer VL 2K** in order to avoid the blistering of the substrate. For non-absorbent surfaces like ceramic tiles or metal substrates no primer is required.

### Application :

**LASTOFLEX-MS** is applied by roll, brush or air-gun in 2-3 layers. For improved mechanical and crack-bridging properties, it is recommended to apply **LASTOFLEX-MS** together with **ELASTOTET GEOTEXTILE** (non-woven and needle-punched polyester geotextile of  $120 \text{ gr/m}^2$ ). The geotextile is applied on top of the freshly laid first coat of **LASTOFLEX-MS**, before the application of the second and the third layer. The use of **LASTOFLEX-MS** together with geotextile is highly recommended for sealing the areas of joints and cracks (on top of **ELASTOSEAL-PU** or **ELASTOBOND**), as well as the corners between the floor and the wall or any other connection such as chimneys, bases of solar panels, etc. Furthermore, the use of **LASTOFLEX-MS** in combination with geotextiles is also recommended for waterproofing roofs with cementitious screeds which have the tendency to crack. Time interval between each coat is at least 2 h and not more than 48 h. When primer is applied, the first coat of **LASTOFLEX-MS** can be applied not earlier than 30 min and not later than 48 hours from the application of the primer. The drying time is significantly affected by the environmental conditions (temperature and humidity). For application by airless spray, it is suggested to dilute the product with White Spirit up to 10%. The same solvent can be used for cleaning the tools or the equipment from the fresh coating. Once the material is cured, it can only be removed mechanically.

**LASTOFLEX-MS** is not suitable for application as a directly exposed layer in swimming pools.

**Consumption :**

A minimum consumption of 1,1-1,3 Lt/m<sup>2</sup> (1,5 – 1,8 kg/m<sup>2</sup>) is recommended. In any case the consumption depends on the roughness of the surface or the specifications of the application.

**Curing time:**

12 to 24 h, depending on environmental conditions.

**Colours :**

White as standard. Grey and red upon special order.

**Packaging :**

Lids of 6 kg, 25 kg.

**Shelf life :** At least 12 months in sealed containers, when stored in dry and cool areas. When opened, the product should be used all at once. The half-used pail will develop a cured layer of material on top during storage. If this cured layer is removed, the remaining liquid material can be used again.

**Warning to users**

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