



LASTOFLEX – ST PR

One component liquid-applied, silane-based roof coating which cures upon contact with atmospheric moisture to form a strong, elastic and water-impermeable membrane.

PHYSICAL PROPERTIES AND ADVANTAGES

- Easy to apply by brush, roller or airless spray.
- Long lasting waterproofing and protection.
- Highly resistant to stagnant water. Does not peel off.
- High solid content.
- 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 be repaired locally.
- Excellent resistance to weather conditions: rain water, frost, UV rays.
- Excellent elastic properties even at very low temperatures (-40°C).
- Excellent crack bridging properties.
- Excellent thermal resistance. The membrane does not turn soft or tacky at high temperatures (+80°C).
- Excellent adhesion to several substrates without the use of a primer. If, however, needed, special primers are available to cover almost all types of substrates.
- Water vapor permeable. Does not cause water accumulation on the ceiling.
- Good resistance against chemicals and detergents.
- High reflection of solar energy (only in white color) and significant reduction of the temperature inside the building during summer.
- Does not release any dangerous substances once fully cured.
- Zero chalking effect.
- Cost efficient.
- Colors: white as standard. Grey and red upon special order.

TECHNICAL PROPERTIES

Uncured material:

Dynamic viscosity EN ISO 3219 (25°C)	7950 mPa·s
Density DIN EN ISO2811-1 (25°C)	1,34 g/cm ³
Skin formation time (dependent on environmental conditions)	1-2 h
Curing time (dependent of environmental conditions)	12-24 h

Cured material:

Hardness Shore A (DIN 53505)	40
Elongation at break (DIN 53504)	250%
Tensile strength (DIN 53504)	1 N/mm ²
Impermeability to water (DIN EN 1928, 1m water column, 24 h)	Watertight
Temperature variations resistance	-40°C to 90°C

Classification according to ETAG 005:

Minimum expected working life	W3 (25 years)
Climate zone	S (severe climate)
User Load	P4 (special)
Roof slopes	S1 to S4
Minimum surface temperature	TL4 (-30 °C)
Maximum surface temperature	TH3 (80 °C)
Reaction to fire (EN 13501-1)	Class E

APPLICATION FIELDS

LASTOFLEX -ST PR is generally used for surface waterproofing. Due to the high hydrophobic properties of the cured membrane, it is suitable for waterproofing surfaces with stagnant water, roofs, tanks, terraces, flowerbeds, roofs with polyurethane insulation foam etc.

Disclaimer:

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DIRECTIONS FOR USE

PREPARATION:

For best performance the application surface must be clean from loose particles, dust, oil, etc. LASTOFLEX -ST PR should generally be applied on dry and non-damaged surfaces. Old coatings should be removed. The surface should not be washed with water prior to the application of the coating. Rainy weather should be avoided. A moisture content of less than 5% is generally recommended for concrete surfaces. Joints and cracks should be sealed with ELASTOSEAL PU joint sealant, prior to the coating application.

SURFACE ACTIVATION:

LASTOFLEX -ST PR can 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 concrete. Wet substrates should generally be avoided. In special occasions of moist concrete, it is recommended to use PRIMER EP-W as a moisture barrier first and then apply the coating. For application on top of bitumen-based coatings or bitumen felts, it is recommended to use PRIMER EP, in order to avoid blistering of the substrate. For non-absorbent surfaces like ceramic tiles or metal substrates no primer is required.

APPLICATION INSTRUCTIONS:

LASTOFLEX -ST PR 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 -ST PR together with ELASTOTET GEOTEXTILE (non-woven and needle-punched polyester geotextile of 120 g/m²). The geotextile is applied on top of the freshly laid first coat of LASTOFLEX -ST PR, before the application of the second and third layer. The use of LASTOFLEX -ST PR together with geotextile is highly recommended for sealing the areas of joints and cracks (on top of ELASTOSEAL PU), 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 -ST PR 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 3 h and not

more than 48 h. When a primer is applied the first coat of LASTOFLEX -ST PR should be applied not earlier than 1 hour and not later than 48 h 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%. **Never dilute the product with water.** The same solvent can be used for cleaning the tools or the equipment from the fresh material. Once the material is cured it can only be removed mechanically. LASTOFLEX -ST PR is not suitable for application as a directly exposed layer on swimming pools. LASTOFLEX -ST PR is 100% UV stable and color stable and it can be applied on top of LASTOFLEX PU in order to eliminate the chalking effect and to provide color stability, especially in dark colors such as red, black, brown or blue. When the coating is wet it can become slippery. To avoid this effect the coating can be sprinkled on top with an appropriate particle size of quartz while it is still fresh.

CONSUMPTION:

A minimum consumption of 1,1-1,3 L/m² is recommended. In any case the consumption depends on the roughness of the surface or the specifications of the application

PACKAGING:

Pails of 0,7 L, 3,6 L, 18 L.

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.

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