

LASTOFLEX-PB-1K

One component, liquid-applied, bitumen-modified polyurethane 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.
- Fast curing.
- Long-lasting waterproofing and protection.
- 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 elastic properties even at very low temperature (-40 °C). Excellent crack-bridging properties.
- Excellent mechanical properties. High resistance to friction.
- High elasticity. 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.
- Does not release any dangerous substances once fully cured.
- Cost efficient.

TECHNICAL PROPERTIES

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| • Density DIN EN ISO 2811-1 (21 °C) : | 1,28 gr/cm ³ |
| • Temperature variations resistance : | -40 to 80 °C. |
| • Surface membrane formation time (23 °C, 50% R.H.): | 30 min |
| • Elongation at break point (DIN 53504) : | 400% |
| • Tensile strength (DIN 53504) : | 2,20 N/mm ² |
| • Hardness SHORE A (DIN 53505) : | 30 |
| • Adhesion on concrete (with primer) : | > 2 N/mm ² |

APPLICATION FIELDS

It is generally used for surface waterproofing. Due to the high hydrophobic performance of the cured membrane, LASTOFLEX-PB-1K is suitable for waterproofing surfaces with stagnant water, foundations, basements, tanks, balconies, terraces, flowerbeds, cut & cover tunnels, bridges, parking decks, bathrooms or kitchens (under tile), etc.

APPLICATION INSTRUCTIONS

Weathering conditions:

Rainy weather should be avoided.

Preparation :

The application surface must be clean from loose particles, dust, oil, etc. LASTOFLEX-PB-1K should generally be applied on dry and sound surfaces. Old coatings should be removed. The substrate should not be washed with water prior to the application of the coating. A moisture content of less than 5% is generally recommended for concrete surfaces. Joints and cracks should be sealed with ELASTOSEAL-PU joint sealant.

Priming :

LASTOFLEX-PB-1K 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. Wet substrates should generally be avoided. In special occasions of moist concrete, it is possible to use a special epoxy primer as a moisture barrier and then apply the coating

Application :

LASTOFLEX-PB-1K is applied by roller, brush or air-gun in 2-3 layers. For improved mechanical and crack-bridging properties, it is recommended to apply LASTOFLEX-PB-1K together with **ELASTOTET GEOTEXTILE** (non-woven and needle-punched polyester geotextile of 120 gr/m²). The geotextile is applied on top of the freshly laid first coat of LASTOFLEX-PB-1K, before the application of the second and the third layer. The use of LASTOFLEX-PB-1K 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. Furthermore, the use of LASTOFLEX-PB-1K in combination with geotextiles is also recommended for waterproofing substrates of cementitious screeds which have the tendency to crack. When primer is applied, the first coat of LASTOFLEX-PB-1K can be applied not earlier than 30 min and not later than 24 hours from the application of the primer. Time interval between each coat is at least 45 min and not more than 48 h. 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 Xylene 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 coating. Once the material is cured, it can

only be removed mechanically. LASTOFLEX-PB-1K is not suitable direct exposure to UV. For applications on roofs, it is suggested to apply **LASTOFLEX-AT** as a top coat on top of LASTOFLEX-PB-1K.

Consumption :

A minimum consumption of 1,1-1,3 Lt/m² (1,4 – 1,7 kg/m²) is recommended. In any case the consumption depends on the roughness of the surface or the specifications of the application. Do not apply LASTOFLEX-PB-1k more than 1 kg per coat as this could lead to bubble entrapment inside the coat.

Curing time:

12 to 24 h, depending on environmental conditions.

Colours :

White as standard. Grey, red, black, blue and green upon special order.

Packaging :

Lids of 5 kg, 23 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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