



Hydro Monoelasto 100

Protective and waterproofing single-component cement sheath.



MAIN AREAS OF USE

It is particularly suitable to:

Protect and waterproof concrete structures (roofs, balconies, tanks, hydraulic works, foundations, etc.).

Act as a waterproofing layer prior to laying **licata.koll Super S1** and **Flex Plus**.

Recommended applications:

Waterproof all kinds of cement material, swimming pools before laying ceramic coatings, autoclaved aerated concrete, even old screeds. Act as a layer of waterproofing adhesive before laying new screeds, tile adhesives in general, etc.

- Suitable substrates (indoors or outdoors):
- Concrete
- Mortar
- Lime/cement-based plasters
- Also old screeds
- Clay brick
- Tiles
- Masonry in general

CHARACTERISTICS

Waterproofing, resistant to CO₂, chlorine and with crack bridging ability even at low temperatures (-20 °C).

Inert to UV rays: also indicated as a final layer exposed to the sun.

Easy application: smoothness and easy detachment from the tools make laying quick and easy.

The high adhesion power also under extreme conditions, confirm its reliability over time.

The surface resistance conferred by selected binders and aggregates makes it suitable also to be walked over.

Conforms to **UNI EN 14891** and **1504-2** in class **CM02P**.

METHODS OF APPLICATION

Preparation of the substrate

The substrate must be clean, planar, cohesive and free of any kind of detaching substance.

It is always recommended to use a primer to even out the absorption.

- **New substrates**: no precautions beyond those indicated.
- **Degraded or crumbling substrates**: remove any friable, poorly cohesive or detachable parts and restore the correct flatness with **licata** products

Preparing the mixture

- 1_Pour Component B (liquid) into a clean container
- 2_Slowly add Component A (powder) by mixing mechanically with a low speed drill to avoid air entrainment.
- 3_Mix for about 3-4 minutes until the mixture is homogeneous and free of lumps.

Hydro Monoelasto 100 should be used as is, with only the addition of clean water. Do not split packs for partial mixing or use open bags.

Application

- 1_Spread the product by brush, roller or spatula, within 60 minutes of mixing.
- 2_When the first coat has matured (approx. 24 hours depending on the weather conditions), spread a second coat.
- 3_The thickness for each layer must not exceed 1.5 mm, the final thickness must be between 3 and 4 mm.
- 4_For demanding cases such as very uneven surfaces, the presence of micro-cracks, areas subject to wear, substrates subject to settling or movement and for applications at the interface between different materials, the use of the reinforcement mesh is strongly recommended.

Drawn between the first and second coat a layer of **licataTHERM 160** fibreglass mesh between the first and second coats as reinforcement and proceed to the laying of a third layer of **Hydro Monoelasto 100**.

PRODUCT INFORMATION

Appearance	Grey powder
Particle size	<0.3 mm
Powder consumption	1.1 kg/m ² every 1 mm of thickness
Mixing ratio	24%-28% of weight of powder
Workability time at 20 °C	±30 minutes
Application thickness per coat	≤1.5 mm
Application temperature	From +5 ° to +35 °C
Storage in unopened original packaging	12 months in a dry place between +5° and +35°C
Packaging	20 kg bag
Density	1420-1500 Kg/m ³

PERFORMANCE REQUIRED ACCORDING TO UNI EN 1504-2

Characteristic	Test method	Legal requirement	Performance
Permeability to CO ₂ (Sd CO ₂)	EN 1062-6	>50 (m)	> 225 (m)
Equivalent air thickness (Sd)	EN ISO 7783-1 EN ISO 7783-2	< 5 (m)	0.02 kg/m ² h ^{1/2}
Capillary water absorption and liquid water permeability	A.6.6	<0.1 kg/m ² h ^{1/2}	≥0.5 N/mm ²
Cycles of freezing/thawing with immersion in thawing salts	A.7	> 1.5 MPa	<0.1 kg/m ² h ^{1/2}
Thunder-shower cycling (thermal shock)	A.8.2	> 1.5 MPa	≥1.5 mm
Adhesion force by direct traction	A.8.2	> 1.5 MPa	≥1.5 mm
Fire classification of construction products and building products	A.8.2		≥1.5 mm
Hazardous substances	Standard not available	Standard not available	Standard not available

PERFORMANCE REQUESTS ACCORDING TO UNI EN 14891

Characteristic	Test method	Legal requirement	Performance
Initial tensile adhesion strength	A.6.2	≥0.5 N/mm ²	≥1.4 N/mm ²
Tensile adhesion strength after water immersion	A.6.3	≥0.5 N/mm ²	≥0.7 N/mm ²
Adhesion by traction after immersion in saturated water and lime	A.6.5	≥0.5 N/mm ²	≥0.8 N/mm ²
Tensile adhesion strength after heat action	A.6.6	≥0.5 N/mm ²	≥1.5 N/mm ²
Tensile adhesion strength after freeze/thaw cycles	A.6.9	≥0.5 N/mm ²	≥0.7 N/mm ²
Water penetration	A.7	<0.1 kg/m ² h ^{1/2}	<0.03 kg/m ² h ^{1/2}
Determination of "crack bridging" under standard temperature conditions	A.8.2	≥0.75 mm	≥1.5 mm
Determination of "crack bridging" under -20°C temperature conditions	A.8.3	≥0.75 mm	≥1.25 mm

WARNINGS

- Product for professional use.

In the case of applications other than those indicated in the sheet, it is advisable to carry out a suitability check in advance and/or contact the licata Technical Service for further information.

- Always check the colour, texture and appearance before application. Any claims regarding this will not be accepted once the product has been applied.
- Do not apply in extreme conditions such as on icy surfaces or in the presence of fog/excessive ambient humidity.

To avoid aesthetic and functional defects, adequate shielding must be provided in case of direct exposure to sunlight.

- Make sure that the ambient, substrate and product temperatures during application and drying are between +5°C and +35°C.
- Properly care for the product until it is completely dry and at least in the first 48-72 hours, protecting it from rain, wind, weather and direct sunlight.
- The temperature and humidity can accelerate (if high) or slow down (if too low) even drastically the maturation process, until it stops completely.
- The presence of scaffolding, the use of natural raw materials and the impossibility of controlling atmospheric conditions and the substrate can lead to signs of recovery and inhomogeneity for which licata SpA is not responsible.
- The fresh product can be washed with water.

SAFETY

Protect eyes and hands during application.

Read and keep the latest version of the Safety Data Sheet available for information on the correct disposal, storage and handling of the product.

NOTES

This data sheet replaces and voids all previous versions.

The instructions and performance information given in this document are based on our current technical-scientific knowledge and must in any case be considered purely indicative and refer to standard laboratory conditions. The purchaser must, therefore, check that the product is suitable for his specific requirements. All the documentation necessary for the safe use of licata SpA products is available in its most up-to-date form on the **licata SpA** company website. Additionally, our technical-commercial network guarantees a quick inquiry and remains available to you for information and explanations. For further information, contact the licata Technical Service at servizio-tecnico@licataspa.it

Data sheet ref.: TDS P10003 - rev.07/21.