isolera LIQUID PLASTIC

Highly elastic, hybrid polyurethane liquid plastic for permanent waterproofing.

Properties:
isolera liquid plastic is a highly elastic, hybrid polyurethane liquid plastic for permanent interior and exterior waterproofing. The product is easy to apply with just two coats. It is waterproof, UV and weather resistant. With short curing times and high flexibility, it offers a durable solution.

The use of a primer is not necessary. The product can be used on a wide range of substrates and has excellent adhesion, even on damp and old surfaces. It is open to diffusion and has excellent resistance to chemicals.

The treated surface can be walked on and painted over. It is suitable for both vertical and horizontal surfaces and can be used in old buildings, renovation projects and new builds. An additional top layer (e.g. tiles, slabs, etc.) is required for permanent walkability with punctual loads (e.g. from furniture or chair legs).

Areas of application:
Flat roofs, canopies, garages, carports, balconies, skylights, eaves, gutters, joints, connections, wall connections, chimney connections, timber constructions, fencing rooms, skylights, skylight domes, garden sheds, hall roofs, detail connections, construction elements, concrete construction, drywall construction, cement boards, PU foam seals, etc.

Not suitable for swimming pools. Standing water should be avoided.

Suitable substrates:
Concrete, screed, sanded bitumen sheets, wood, metal, glass, ceramic, tiles, tiles, aluminum, steel, zinc, copper, brass, painted surfaces, PVC, polyester, PMMA (Plexiglas), polyurethane etc.

Preparation of the substrate:

The surface must be clean, dry and free of release agents, the soil moisture content must not exceed 8% and the compressive strength of the substrate must be at least 25 MPa. The cohesive bond strength should be at least 1.5 MPa. New concrete elements must dry for at least 28 days. Remove old coatings, dirt, grease, oil, dust and organic substances.

Any cracks and gaps must be sealed with a suitable PU sealant. In the case of cracks and gaps, it is recommended to incorporate a plastic fleece. A layer of isolera FLK 1K is applied, the fleece is rolled into the still damp liquid plastic and coated with a second layer of liquid plastic.

Processing:
Stir isolera liquid plastic thoroughly. Apply the first coat of liquid plastic to the prepared substrate. Use a brush, roller, brush or airless device for this.

We generally recommend the use of a fleece for cracks, gaps, penetrations, connections and stress areas. Roll the fleece into the still damp first layer and then coat it with a second layer of the liquid plastic. The second layer can be applied after approx. 3-18 hours.

Do not apply isolera liquid plastic at temperatures below 10°C, component temperature 5°C, or during rain or frost in the next 48 hours. Low temperatures slow down the curing time, while high temperatures can speed it up. After curing, isolera FLK 1K remains flexible to compensate for movements in the structure. The surface is smooth. To create a non-slip surface or to prepare the sealed surface for tiling, you can sprinkle the still damp final layer with quartz sand.

Consumption:
2 x 1.25 - 1.5 kg / m2
Total consumption: 2.5 - 3.0 kg / m2

To be applied in 2 coats. Surface condition and temperature can increase consumption. The use of a fleece also increases the consumption.

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Technical data sheet Status: 01.02.2023

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Technical data:

Chemical basis:	1C hybrid polyurethane 100 %,
Elongation at break	ASTM D 412
Tensile strength	> 1.5 N / mm2, ASTM D 412
Resistance to water pressure	No leakage (1m water column, 24h) DIN EN 1928
Adhesion to concrete	> 1.2 N /mm2,
CO2 Permeability	EN 1542 3,4 g / m2d, EN 1062-6
Water vapor permeability	17,75 g /m2d, EN ISO 7783
Capillary absorption and water permeability	0,009 kg /m2.h0,5, EN 1062-3
Hardness (Shore A scale)	60 ASTM D 2240 (15'')
non-sticky	6 hours
Walkable	18 hours
Fully cured	7 days
Temperature resistance	-40°C to +90°C
waterproof	after 2 h – 3 h acc. DIN 1048 (condition: 20°C, 50% RH)

Storage:

isolera liquid plastic must be stored in a cool and dry place. Protect the containers from frost and direct sunlight. Originally sealed containers can be stored for 12 months. Open containers should be used immediately.

Delivery form:

4 kg / 15 kg

Hazardous substance:

Not a hazardous substance in the sense of the Hazardous Substances Ordinance

Disposal:

Follow local disposal regulations

Remarks:
The information corresponds to the current state of development. They do not claim to be complete.
Professional and therefore successful processing of the products is products is not subject to our control. A guarantee can therefore only be given for the quality of the products, but not for the processing. It is the responsibility of the user to determine the suitability of our products for his purpose. Preliminary tests are recommended

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