



SOLID POLYSEAL

Two Component, Fast Curing, Cold Applied Polyurea,
Waterproofing Membrane



DESCRIPTION

SOLID POLYSEAL is a two component, fast curing, cold applied polyurea waterproofing membrane. It creates an elastic and durable film layer on the surfaces. PU 650 TC-1K or PU 600 TC-1K should be used as a top coat in order to use it in places exposed to UV and outdoor effects.

BENEFITS

- > Easy to apply (via brush, roller or spray).
- > Does not require expensive application equipment and machinery.
- > When applied it forms a one-piece membrane that does not cause joint formation or leakage.
- > It provides an elastomeric and hydrophobic layer.
- > It is permeable to water vapor. Having a breathable structure it does not cause accumulation in the substrate.
- > Even if the **SOLID POLYSEAL** is damaged in some way, the damaged part can be repaired quickly and easily.
- > Provides effective resistance against chemicals.
- > Fast curing in all weather conditions.
- > Heat resistance performance between -40°C and +90°C.

USES

- > Terraces and balconies.
- > Bridges and tunnels.
- > Wet areas.
- > Floors.
- > Undertile applications.
- > Concrete structures.

CONCRETE SUBSTRATE STANDARDS

- > Hardness: R28 = 15 Mpa.
- > Humidity: W < 10%.
- > Temperature: +5°C and +35°C.
- > Relative Humidity: < 85%.

For detailed information, please consult our technical department.

APPLICATION PROCEDURE

Surface Preparation

Before the application, in order to ensure a good adhesion oil, grease, paraffin waste, cement grout, loose particles, mold release agents, cured old membranes should be removed from the surface. After washing the surface with high pressure water, it should be thoroughly dried. Surface defects and cracks should be repaired with suitable products.

Priming

For absorbent surfaces such as concrete, cement or screed, *PU PRIMER 200* or *EPOXY PRIMER* should be used. *AQUA PU PRIMER 2K* or *EPOXY PRIMER WB* should be preferred on damp surfaces. *TILE PRIMER* should also be used on non-absorbent surfaces such as metal, ceramic or old coatings. Please examine primer table for detailed information.

Application

Firstly, components A and B should be mixed in their own containers in a low-speed mixer for 2-3 minutes. Afterwards, the components are combined and mixed in a low-speed mixer for 3 to 4 minutes and made ready for use. The material should be applied to primed surface with a roller or brush until the entire surface is covered, by pouring the product in at least one or two layers.

APPLICATION REMARKS

- > After applying **SOLID POLYSEAL**, it should be covered.
- > Not recommended for unstable surfaces.
- > It is not used for waterproofing of swimming pools with chemically treated water.

CONSUMPTION

Single layer consumption (minimum): 1,50 - 2,00 kg/m²

CLEANING

After the application, all tools should be cleaned with **SOLID 001**. Rollers and brushes should be disposed of.



Disclaimer : The image of product in the brochure is not necessary the same as actual.

PACKAGING & COLOR

25kg. (Component A) + 1,5kg. (Component B) in metal bucket and Red (RAL3013) color.

STORAGE & SHELF LIFE

The product can be stored for a maximum of 12 months in unopened original pail at temperatures between + 5°C and +25°C. Opened product should be used at the soonest.

QUALITY ASSURANCE

SOLID manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be in contact with open fires. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. For more detailed information, ask for the Safety Data Sheet (MSDS) from SOLID POLYMERS technical department.

TECHNICAL DATA

QUALIFICATION	METHOD	FEATURE
Coating Type	SOLID Lab.	Pure Polyurea
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1,30 (±0,05) gr/cm ³
Viscosity	ASTM D 2196-86 / EN ISO 3219 (+25°C)	3,000 - 5,000 cp
Water Vapor Permeability	EN ISO 7783	0,8 gr/m ² Hour
Glossy	SOLID Lab.	Semi Gloss
Application Temperature	SOLID Lab.	+5°C to +35°C
Solid Content	SOLID Lab.	90% (± 5)
Heat Resistance	SOLID Lab.	100 days at +80°C
Shock Heat Resistance	SOLID Lab.	200°C - Passed
Hardness	ASTM D2240, DIN 53505, EN ISO 868	50 (Shore A)
Elongation at Break	ASTM D 412 (+23°C)	> 600%
Pot Life	SOLID Lab. (+25°C)	40 to 45 minutes
Tensile Strength	ASTM D 412 (+23°C)	> 10 N/mm ²
Adhesion to Concrete	TSE EN 1542 (+23°C)	> 2 N/mm ²
Service Temperature	SOLID Lab.	-40°C to +90°C
Tack Free Time	25°C / 55% RH	2 to 3 hours
Recoat Time	SOLID Lab.	3 to 6 hours

Disclaimer : The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.

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