

PUSEAL 100

Elastomeric, Transparent Protective and Waterproofing Polyurethane Membrane

Description

PUSEAL 100 is a two-component semi-gloss, aliphatic UV stable, transparent waterproofing and protective coating liquid membrane. It has good characteristics of impermeability, elasticity, crack bridging and resistance against abrasion. After curing, the product transforms into a clear elastic, continuous, membrane suitable for use on concrete, ceramic, marble, natural stone and roofing systems to provide crack bridging and waterproofing membrane. Also, it can be used as a UV resistant sealer and protective coating over Epoxy and Polyurethane flooring systems.

Features & Benefits

- High Elasticity
- High tensile strength and abrasion resistance
- Crack Bridging ability
- Rubber Like Membrane
- Resistant to light chemicals
- High UV Resistant, non-yellowing
- Excellent durability
- Easy to Repair, just needs over coating

Uses

PUSEAL 100 is suitable to use as transparent waterproofing membrane on:

- Over Concrete Flooring in wet areas
- Protective topping over Polyurethane, epoxy and acrylic Coatings.
- On Natural Stones & Marbles
- On floor and wall Ceramics
- Waterproofing for roofs, balconies, parking deck...etc.

Technical Properties

Appearance	Viscous liquid membrane
Color	Transparent
Mix Density	1,200 Kg/m ³ approx.
Pot Life	40 minutes

Solid content	100%
Elongation	100%
Tensile strength	6 N/mm ²
Adhesion to concrete	2.0 N/mm ²
Shore A hardness	65
Service temperature	-20 to +80 °C
Crack bridging	>0.75 mm
Touch Dry	6-8 hours
Time between two coats	8-10 hours
Complete hardening	7 days
Moisture vapor transmission	3.85 gram/m ² / day
QUV accelerated weathering test	Passed 1000 hours without color change
Abrasion resistance	Excellent
Resistance to bacteria & algae	No attack

All values are subject to 5-10% tolerance

Standards Compliance:

- ASTM C 957
- ASTM D 624 & D 412
- DIN 52455

Application Procedures

Surface preparation:

The support must be sufficiently cured, perfectly clean, solid and free from non-adherent parts, loose cement, traces of form stripping oils, old varnishes, etc.

All damages and weak concrete should be removed and repair with one of SBI concrete repairing products (please consult SBI Technical team for advice). Any blowholes, chipping or small cracks should be repaired with **EPOREP FINISH** mortar. Edges of expansion joints should be repaired with **EPOMORT** epoxy mortar.

Prepared surfaces should be primed with **TOPSEAL EP** primer. Apply primer on the surface at a rate of 0.15 – 0.2 Kg/m² depending on the porosity of the concrete substrate.

Mixing Instructions:

For preparation of product, pour the hardener pack (component B) into component A (Base) and mix carefully with electric mixer at low number of turns, continue till obtaining a homogeneous mix.

Application Instructions:

When the mix is ready pour over the primed surface and spread to the desired thickness using a squeegee, application rate between 2 – 2.5m² per Liter (depends on surface porosity and desired thickness) then back-roll using a roller to break air bubbles. If application by roll or brush, two coats are recommended to avoid pinholes. Between the two coats allow the first coat to cure (minimum 8 hours) then apply the second coat.

For non-skid surface, sprinkle Quartz (Silica Sand) on the wet top of PUSELA 100 at a rate of 0.5-0.7 kg/m². Allow to dry before removing the excess Quartz by lightly cleaning.

For using as Sealer/ Protective coating over Epoxy/ Polyurethane systems; apply PUSEAL 100 by roller or brush in a rate of 8-10 m² per Liter to achieve a coat thickness of 100 microns.

Coverage

PUSEAL 100 can covers 2 - 2.5 m² per Ltr. to achieve dry film thickness of 500 microns as a waterproofing membrane.

For sealer application, apply in a rate of 8-10 m² per Ltr. To achieve thickness of 100 microns.

Packaging

PUSEAL 100 is available in 4 & 15 Ltr kits.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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SALES OFFICE : Dubai, Barsha, Rasis Business Center
FACTORY : RAK, Jazerat Al Hamra

Tel.+971 4 3999927
 Tel. +971 7 2210066
 Fax. +971 7 2433821
 P.O.Box 14569

www.sbi-me.com , info@sbi-me.com