

PUSEAL 601

High Performance, Elastomeric Polyurethane Waterproofing Membrane

Description

PUSEAL 601 is a cold applied UV resistant, single component moisture cured Aliphatic Polyurethane waterproofing and protective coating. After curing, it forms a seamless, tough, durable, elastomeric waterproofing membrane.

PUSEAL 601 has good characteristics of impermeability, elasticity, crack bridging and high resistance against abrasion and chemicals.

Features & Benefits

- High Elasticity, rubber-like
- Excellent tensile strength and abrasion resistance
- Impermeable to water and carbon dioxide
- High Crack Bridging ability
- Excellent bonding to wide range of substrates
- Resistant to Chemicals
- Color Stable, UV Resistant
- Excellent durability
- Easy to Repair, just needs over coating

Uses

PUSEAL 601 is suitable to use as waterproofing membrane on:

- Concrete or PU foam built up roofs
- Masonry & Metal Surfaces
- Basements, balconies, parking and terrace
- Wet Areas such as bathrooms, kitchens...etc.
- GRP & GRC
- Concrete walls as waterproofing protection coating

Technical Properties

Appearance	Liquid membrane
Color	Grey and White
Density	1,300 Kg/m ³ approx.
Pot Life	45 minutes
Solid content	85%
Elongation	600%

Tensile strength	>4 N/mm ²
Adhesion to concrete	>2.0 N/mm ²
Shore A hardness	65
Service temperature	-20 to +80 °C
Crack bridging	>2 mm
Re-coating interval	10-12 hours
Complete hardening	7 days
Water vapor permeability	25 g/m ² / 24hour
Solar Reflectivity (SR)	0.88
Abrasion resistance	Excellent
Resistance to bacteria & algae	No attack

All values are subject to 5-10% tolerance

Standards Compliance:

- ASTM C 836
- ASTM D 624, D 2240 & D 412

Application Procedures

Surface preparation:

New concrete surfaces should be fully cured. Substrate should be free from dust, oil, curing agent residues and other contaminants. For parapet walls, columns, pipes penetrations etc. make a 45° coving fillet at all corners using cement mortar. Apply a reinforcing pretreatment strip of PUSEAL 601 1mm thick extending 150mm on both sides of the coving to form an over flashing. Voids and honeycombs must be patched with SBI concrete repair products. Allow the patched area to cure before applying the membrane.

All metal surfaces should be made clean of paint, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean the surface prior to priming.

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.

Expansion Joints:

Expansion and movement joints should be sealed with PU or PS Sealant. When cured, a layer strip of PUSEAL 601 in 200mm wide should be applied centered over all

sealed joints. While the membrane is still wet cover with a correct cut stripe of fiber mesh and press it to soak. Saturate the fiber mesh with another coat of PUSEAL 601 until it is fully covered. Allow curing before applying the waterproofing membrane

Mixing Instructions:

PUSEAL 601 is a single component ready to use. stir the content of the pail before use to mix any settled material.

Application Instructions:

PUSEAL 601 should be applied by brush, roller, trowel or airless spray in two coats to achieve total film thickness of 1.0-1.5mm. The second coat should be applied at right angle to the first one once the first coat is completely dry (10-12 hours). **PUSEAL 601** membrane must be cured for a minimum of 48 hours.

To give additional mechanical strength either at joints or over the whole surface, embed a layer of fiber glass tape or sheet between the two coats.

As an aesthetic finishing touch, it is possible to spray Quartz No.2. onto the last coat while wet.

Allow the coating to cure fully for 48 hours to achieve its full properties.

Coverage

PUSEAL 601 can covers 1.1-1.2 Liter per m² to achieve dry film thickness of 1 mm.

Packaging

PUSEAL 601 is available in 4 & 20Liter Pail.

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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