

PUSEAL 500

Hybrid, Polyurethane-based Elastomeric Waterproofing Membrane

Description

PUSEAL 500 is a hybrid, elastomeric, waterborne, liquid polyurethane waterproofing membrane. It is specially formulated from acrylic and polyurethane resins to give excellent UV and abrasion resistance coating.

PUSEAL 500 has high bonding to various substrates, such as concrete, wood, metal and any type of waterproofing membranes and is applicable even to irregular substrates. After curing, it forms a continuous, elastic, waterproof and vapor-permeable membrane, without seams or joints, offering. It is environment and eco-friendly product.

Features & Benefits

- Waterborne, Eco-Friendly product
- Excellent elasticity and crack bridging property.
- Excellent substrate bonding.
- High tensile strength
- High resistance to UV
- High solar reflectivity and heat reflection.
- Improvement of building energy efficiency by decreasing the roof temperature.
- Formulated for hot weather climate

Uses

PUSEAL 500 can be used as:

- Waterproofing coating on top of concrete, asbestos, plasters, cement and Gypsum boards, wooden chipboards etc.
- Protective coating for polyurethane sprayed foam against UV, water and weather effects.
- Solar reflection and energy-consumption reducing coating on roof.
- Used as a waterproofing system for roofs, terraces, balconies, etc.
- As waterproofing coating for wet areas not exposed to pressurized water, such as showers, kitchens, bathrooms, residential buildings and hospitals.

Technical Properties

Appearance	Liquid Membrane
Color	Grey / White other colors available on request
Mix Density	1,300 Kg/m ³ approx.
Tensile strength	>1.5 N/mm ²
Adhesion to concrete	2.5 N/mm ²
Water vapor permeability	0.59m
Service temperature	-20 to +80 °C
Elongation at break	500% (without fiber mesh)
Crack bridging	2.5mm
Capillary water absorption	0.01 kg/m ² .h ^{0.5}
Touch dry time	3-4 hours
Re-coat time	16 hours
Solar Reflectivity	90%

All values are subject to 5-10% tolerance

Standards Compliance:

- EN 1504-2
- EN ISO 7783-2 , Class I
- EN ISO 1062-3 & 527
- EN 1542

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. In case of very porous supports it is advisable to apply one coat of PUSEAL 500 diluted with 20% of water as a primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats.

Metallic surfaces must be steel brushed, or sand blasted in order to remove all corrosion and mill scale. For applications an old bituminous sheets, brush the surface and clean with water. In case of presence of protective aluminous varnish use SOLVENT 20 to remove the varnish and then clean with water.

Mixing Instructions:

PUSEAL 500 is supplied in a 20 kg Pails ready to use at site. Prior application mix the content of the pail to remove any sediment. it can be applied with a roller, brush or with a spraying machine. For specified method application, contact SBI Technical Department

Application Instructions:

As soon as the primer is dried, apply **PUSEAL 500** in two crossed coats in a rate of 0.3-0.5 Ltr/m² per coat. Before the following coat is applied make sure that the previous coat is completely dry (around 16 hours) according to the environmental conditions.

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, slate, sand, etc. onto the last coat while wet.

Allow the coating to cure fully for 2 days to achieve its full properties.

Protect **PUSEAL 500** coating from rain or from pedestrian traffic till it completely cures. Damaged parts can be cleaned and over coated.

Coverage

PUSEAL 500 can covers 1-1.5 m² per Ltr. to achieve total thickness of 500-750 microns dry film thickness.

Packaging

PUSEAL 500 is available in 20kg 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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