



SOLIDFLEX PULM

Polyurethane Based Tough Elastomeric Waterproofing Membrane



BENEFITS

- > Chemical resistant : Resists deterioration from dilute acids and alkali, oil, salts, bacteria, and common fuels.
- > Applied by roller, brush, or airless spray.
- > Tenacious adhesion and high elastic recovery.
- > Long term resistance to ponded water.
- > High elongation, permits membrane to stretch with movement in the substrate.
- > Excellent crack bridging properties and UV resistance.
- > Continuous monolithic (seamless) layer completely bonded to the substrate, eliminates horizontal migration of water between membrane and the substrate. Thus if the membrane is punctured, a leak can only occur directly below the damaged section of the membrane, allowing fast location and inexpensive repairs.

DESCRIPTION

SOLIDFLEX PULM is a pitch extended polyurethane based elastomeric coating, formulated to give long lasting, maintenance free, and superior waterproofing protection for concrete and steel structures. The coating curing forms a tough elastomeric membrane which offers the most advanced waterproofing technology and provides long term performance and security of the waterproof environment.

USES

SOLIDFLEX PULM is used as a waterproofing or vapor barrier for protection of foundations and basement, ground floors, kitchens and bathrooms, split slab, terraces, balconies and patios, car park decks, Inverted roofs & sunken slabs, tunnels.

PACKING & COVERAGE

SOLIDFLEX PULM is supplied in 5 and 20 kg plastic bucket. **SOLIDFLEX PULM** has a coverage of 0.8 ~ 1 kg / m² / 2 coats.

NOTE : Theoretical coverage only applies to a smooth, nonporous substrate. When estimating quantity take off, it is normal practice to add 10 ~ 15 % to the initial estimate to account for wastage and surface irregularity.



SPECIFICATION

SOLIDFLEX PULM is a polyurethane based elastomeric coating which forms a tough elastomeric membrane on curing, supplied in 5 and 20 kg bucket having a coverage of 0.8 ~ 1 kg / m², used strictly in accordance with the instruction of **SOLID**.

SHELF LIFE & STORAGE

SOLIDFLEX PULM will have a shelf life of 12 months in unopened container when kept in dry conditions at a temperature between 5 ~ 45 °C. Storage at higher temperature or high humidity may reduce shelf life.

HEALTHY & SAFETY

Always use protective clothing, eye goggles and rubber hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately cleansed with water and medical attention sought.

SOLIDFLEX PULM



HOW TO USE

Surface Preparation : Surface must be structurally sound, clean dry and free from dust, grease, curing compounds, paint coatings, and other loose debris. Surface should ideally have a "sand paper" profile roughness. Recommended methods for preparing concrete are by sand or captive shot blasting; wire brushing or by pneumatic (scabbling) tools. Shrinkage and non structural cracks should be pre-treated with a 1mm thick coating of **SOLIDFLEX PULM** reinforced with **SOLIDFLEX FIBRE MESH** - fiber reinforce sheet extending at least 50 mm on both sides of the crack. Allow to cure for 24 hours.

Right angle or corner should have cant strips installed. A suitable cant strip can be prepared by mixing 1 part cement and 1 part fine clean sand and **SOLIDSEAL BA** additive. First apply 0.5 mm thick **SOLIDFLEX PULM** on the corners. Embed a 100 mm width reinforcing **SOLIDFLEX FIBRE MESH** - fiber reinforce sheet on the bedding coat then apply a second coat of **SOLIDFLEX PULM** 0.5 mm thick completely covering the reinforcement. Allow to cure at least 12 ~ 24 hours. Install mortar canting on the corners extending on both sides by 50 mm. Allow cure for 24 hours prior to general application.

Priming : Normally **SOLIDFLEX PULM** can be applied directly onto the surface and does not require priming. However, for highly porous surfaces apply **SOLIDSEAL BA** @ 5 ~ 6 m² / kg. Allow to cure at least 4 ~ 5 hours prior to over coating with **SOLIDFLEX PULM**.

Application : The product requires thorough mixing (for at least 3 ~ 5 minutes) with a mechanical drill (300 ~ 400 rpm) fitted with a proprietor paddle prior to application so that a homogenous mix is achieved. Application should commence as soon as product mixing is completed. Apply the coating @ 0.8 kg / m² / coat to achieve a dry film thickness of 1000 microns. The coating can be applied in either one or two coats. If applying in two coats ensure that the second coat is applied only after the first coat has become tack free. The second coat is recommended to be applied in the opposite direction to the first coat as this will allow the polyurethane in the mix to be distributed more uniformly. The coating will achieve its full mechanical properties after a period of 7 days.

Cleaning : Clean all the tools with water after use. Hardened materials can be removed mechanically only. Allow the waste to cure. Seal into a suitable container and bury in landfill. Use licensed waste disposal contractor and consult the local authorities when disposing.

TECHNICAL & PHYSICAL DATA

Form	Liquid
Color	Available in Colors
Density CNS 6989, CNS 6988	1.10
Hardness (Hs) CNS 6989, CNS 6988	38
Tensile Strength (kgf / cm ²) ASTM D412-98	21
Elongation at break (%) ASTM D412-98	750
Tensile Strength at 100% Elongation (kgf / cm ²) ASTM D412-98	3.8
Tear Strength (kgf / cm ²) CNS 6989, CNS 6988	15

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.

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.



FACTORY OFFICE

Lot 772 (10-14), Jalan Subang 4, Kawasan Perindustrian Sg. Penaga
47620 Subang Jaya, Selangor Darul Ehsan, MALAYSIA.

+603-8081 4777 / 4776

info@solidolutions.com.my www.solidolutions.com.my

+603-8081 4771