

TECHNICAL DATASHEET

ASCOSHIELD PU+

Hybrid Polyurethane Based Liquid Applied Waterproofing Membrane



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PRODUCT INTRODUCTION

ASCOSHIELD PU+ is a specially formulated with modified acrylic PU polymers, additives and micro fibers. It is a liquid applied, highly elastic, cold applied and cold curing, crack bridging hybrid polyurethane membrane used for long lasting waterproofing. When **ASCOSHIELD PU+** is applied on substrate, it forms a permanent elastic, hydro phobic, 100% waterproofing & seamless membrane without joints or leak possibilities. It can be applied on both old and new structures for long term basis.

KEY FEATURES

1. Excellent adhesion on any type of substrate.
2. Cost effective and excellent durability.
3. Excellent anti-carbonation properties. It can be applied on interior and exterior areas.
4. Crack bridging.
5. UV light resistant and weather stability.
6. Resists positive hydrostatic pressure.

RECOMMENDED APPLICATIONS

1. Waterproofing of basement walls, slope/ flat roofs.
2. Waterproofing of balconies and terraces.
3. Interior and exterior walls.
4. New and existing roofs, brick bats, IPS & commercial box gutters.
5. Ideal for all wet areas like bathrooms, showers, swimming pool, etc.
6. Waterproofing protection of concrete constructions.

TECHNICAL PROPERTIES (Complies to ASTM C 836 , ASTM D 412 , IS 101 , IS 2645)

Appearance	Fiber enriched , hybrid Polyurethane viscous liquid
Color	White, grey, terracotta & yellow
Density (Kg. / Lit.) at 30°C	1.18 ± 0.03
Recommended Thickness	1.1mm DFT (2 Coats)
Elongation	≥ 500 %
Crack bridging	Up to 2 mm width
Tensile strength (ASTM D 412)	≥ 2.9 N/mm ²
Recoating time	6 Hours
Surface curing	8-12 Hours
Ready for foot traffic	24-36 Hours
Full cure	7 days
Adhesion to concrete	≥ 2.5 N/mm ²
Solar Reflective Index	102 (White)
Water Resistance	Up to 7 bar pressure

The values obtained are from laboratory testing conditions and at 27 ± 2°C . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.

APPLICATION METHODS:

1. Surface Preparation

The substrate must be clean, dry, sound and free from dirt, oil, grease, coatings, etc. which hinders the adhesion. Weak concrete must be removed. Concrete should be allowed to cure for 28 days and cement renders & screeds should be allowed to cure for 7 days prior application of **ASCOSHIELD PU+**.

2. Priming

Prime with **ASCOPRIME ULTRA** by brush or roller. Allow the primer to become dry before application. Extremely porous surface may require second coating.

3. Coverage

Approximately 12 ft² – 15 ft² / 2 Coats / per Kg per coat without dilution in water and to be applied by roller/brush over a smooth surface.

4. Mixing

ASCOSHIELD PU+ waterproofing membrane must be thoroughly mixed for 3 minutes in order to achieve a homogenous mixture using a low speed electric stirrer (300-400rpm) or any other suitable mixing equipment.

5. Application

ASCOSHIELD PU+ can be applied by brush or paint roller. Before application on surface areas, pre-treat all the cracks, joints, corners and coving areas first, by applying a generous coat of **ASCOSHIELD PU+** approximately 10 cm (4") to each side of joint or surface. Allow it to dry and then apply a second coat of **ASCOSHIELD PU+** to same area. Once it becomes dry, apply a generous coat of **ASCOSHIELD PU+** to entire surface including pre-treated cracks, joints, and coving areas. DO NOT skimp on initial coat of **ASCOSHIELD PU+**. Final dry thickness of first and second coating should be of minimum 500 micron to 750 micron. Inspect the entire area and recoat on required areas.

6. Curing

Minimum curing time is 24 hours from the application.

7. Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use **ASCOSHIELD PU+** for storage and application
- ii. If it comes in contact with eyes, immediately wash eyes with water and seek medical advice.
- iii. Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use.

(Material Safety Data Sheets are available through our company's representative or from our ASCOLITE's website)

8. Packaging

Available in 5 Kg and 20 Kg plastic pail & completely sealed in inert atmosphere.

9. Shelf Life

12 months from the date of production if stored in original, sealed packaging and in places protected from moisture, sun exposure and frost.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.