



Product Data Sheet

ASMACOAT WP 5900 PUD

Modified Polyurethane Liquid Applied Waterproofing Membrane.

DESCRIPTION:

ASMACOAT WP 5900 PUD is a single-component waterborne polyurethane dispersion based on PUD Technology. It features low VOC content, providing environmental benefits. The is designed for exterior applications, offering durability, color and gloss retention, and chemical resistance. The incorporation of long-chain polyurethane macromolecules in a water medium through PUD Technology is highlighted as an innovative approach, contributing to a "Green Revolution" in polyurethane-based products.



KEY PERFORMANCE PROPERTIES

- Simple application (roller or airless spray).
- Water Based
- Resistant to abrasion and wear conditions.
- Gives an easy-to-clean surface.
- Excellent mechanical, chemical resistance properties.

AREAS OF APPLICATION

ASMACOAT WP 5900 PUD is easy to apply, cost effective and particularly used in:

- Waterproofing of Balconies / Terraces
- Waterproofing of pedestrian areas (Decks)
- Protection of Polyurethane Foam Insulation
- Waterproofing of most surfaces Concrete, Precast Concrete, Boundary Walls foundations (buried structure),

METHOD OF APPLICATION

ASMACOAT WP 5900 PUD shall be applied as per the following general method of application.

A. Substrate preparation:

The performance and ultimately durability of the coating largely depends on the condition of the substrate. Therefore, conditioning and preparation of the substrate is of utmost importance.

Concrete surface:

The surfaces shall be thoroughly cleaned to remove all dust particles and laitance. Surface defects like potholes and pinholes on building facades on the concrete shall be repaired with an appropriate polymer modified repair mortar.

For higher strength and flexibility, insert a non-woven geotextile membrane whilst the first coat is still wet on all corner joints, fillets, and pipe penetration joints. Allow the coating to fully cure for 72 hours to achieve its full properties.

B. Mixing:

When a container is opened, the contents may have settled or separated over time, especially if the product has been sitting on a shelf or in storage for a while. Mixing the contents thoroughly can help to recombine any separated components and ensure that the product is at its intended consistency.

The coating always must be applied with a minimum of 2 coats for optimum performance. The coverage rate will always vary depending on the area of application and the nature of the substrate. Re-coat Interval 6 hours @ 40 °C.

PACKAGING

ASMACOAT WP 5900 PUD is available in 25 Kg Pail.

COVERAGE RATE

1st Coat 0.7 Kg / m²

2nd Coat 0.6 Kg / m²

Recommended thickness to achieve the required characteristics ≈1000 microns.

Some substrates will require higher consumption than indicated above. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile,

STORAGE & SHELF LIFE

Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (<25° C). The shelf life is up to 12 months in unopened conditions if stored as per guidelines.



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IMPORTANT NOTE

ASMACO WP 5900 PUD is ready to use solution for application. Do not apply if rain or possibility of rain within next 48. hours as the product is not resistant to rain during application / until fully dry.

CLEAN UP

Clean roller brush and equipment after use with warm soap water.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACOAT WP 5900 PUD**. In case the material splashes to the skin or eyes wash the same with fresh water immediately.

In critical cases seek medical assistance.

TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White, Grey, Other Colors on Request	—
Solid Content	≥60 %	—
Full Cure	72 hours	—
Service Temperature	-5°C — +70°C	—
Application Temperature	+5°C — +45°C	—
Touch Dry	4 Hours	—
Re-coatable	24 Hours	—
VOC	< 100 g/ltr	BS EN ISO 11890 – 1 : 2007
Density,	~1.25 kg/Liter	ASTM D 1475
Adhesion & Cohesion	1 N/mm ²	ASTM D 6424
Crack Bridging	>1.25 mm	ASTM C 836
Hydrostatic Pressure @ 5 Bar	No Leakage	BS EN 12390
Peel Adhesion	>0.8 N/mm ²	ASTM D 4541
Elongation at Break	≥ 250 %	ASTM D 412
Tensile Strength	>2.0 N/mm ²	ASTM D 412

All values given are subject to 5-10% tolerance.

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS,
SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL

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