



Product Data Sheet

ASMACOAT WP 905

Two Component Polyurethane Liquid Applied Waterproofing Membrane

DESCRIPTION:

ASMACOAT WP 905 is a two-component polyurethane coating, designed to form a seamless, elastomeric waterproofing membrane. When fully cured forms a permanently flexible waterproof lining to most building surfaces including reinforced concrete, block works, brick works, cement render, plaster board and fibre-reinforced cement. It cures by reaction to form a tough elastomeric waterproof membrane. ASMACOAT WP 905 is designed for use on horizontal and vertical surfaces.



KEY PERFORMANCE PROPERTIES

- Excellent elasticity allows expansion and contraction with the substrate, without cracking or becoming brittle.
- Excellent chemical resistance has high resistance to oxidation and embitterment
- High thermal stability which eliminates melting and flowing at high temperature.
- Excellent workability.
- Excellent adhesion can be applied to a wide range of substrates.
- Seamless-no joints
- Easy to repair.

AREAS OF APPLICATION

ASMACOAT WP 905 is easy to apply, cost effective and particularly used in:

- Roofs
- Basements and foundations
- Tunnels and bridges
- Terraces and balconies
- Car decks
- Planter boxes
- Retaining walls

- Internal wet areas (kitchens, bathrooms)
- Fountains and pools
- Sewages works.
- Tanking applications in areas where aggressive ground water conditions prevail.
- Stairs, stadiums, tribunals.

METHOD OF APPLICATION

ASMACOAT WP 905 shall be applied as per the following general method of application.

A. Substrate preparation:

The surface of the concrete shall be sound, clean, and free of contamination.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Oil, grease, varnishes, rust, dust, and mould on metal surfaces shall be removed by wire or stiff brushing and grit blasting then wiped with ASMACO CLEANER 2 prior to priming.

New concrete or cementitious surfaces should be at least 28 days old and have moisture content not exceeding 5%. Old or existing surface should be refurbished mechanically to ensure clear and sound substrate.

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.

Metal surface:

The surface should be cleaned from all rust scales. This can be achieved by wire brushing or grit blasting.



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B. Priming

On new concrete surface the **ASMACOAT WP 905** coating can be applied directly. However, it is recommended to apply a priming coat on all old and porous substrates for improving the adhesion of the subsequent coats.

Highly porous concrete or concrete containing micro silica will require sealing using **ASMACO PU 850 PRIMER** solvent based primer. The primer should be left to achieve a tack-free condition before applying the top coat.

C. Mixing:

ASMACOAT WP 905 is supplied in 2 pre-weighed components. Thoroughly stir the contents of the base can. Pour component B hardener into Component A pail and mix well with a mechanical mixer operated at low speed. Scrape the side of the pail to ensure the entire product has been properly mixed until a homogenous mixture is achieved.

Primer application can be done using a brush or roller. For large areas the application can also be done using an airless spray machine. The primer should be allowed to dry before applying subsequent coats for at least 6 to 8 hours. The area should be re-primed if there is a delay in the application of the topcoat for more than 24 hours depending on the area of application and the nature of the substrate.

D. Applications

ASMACOAT WP 905 shall be applied by brush, roller, trowel or airless spray* in 2 coats to achieve a minimum dry film thickness of 1.0 mm. The two coats must be applied at right angles to one another.

Airless spray should be based on airless pump manufacturer recommendations as per product viscosity.

CLEAN UP

Tools and equipment used for application of **ASMACOAT WP 905** should be cleaned with **ASMACO CLEANER 2** after the usage.

PACKAGING

ASMACOAT WP 905 is available in 28 Kg Set

Part A: 20 Kg Pail.

Part B: 8 Kg Pail

COVERAGE RATE

1.51 Kg / m² / 2coat, Thickness of 1.0 mm.

HEALTH & SAFETY

ASMACOAT WP 905. During application, wear appropriate protective clothing, goggles, gloves, and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical assistance immediately. Do not induce vomiting. In case the material splashes to the skin or eyes wash the same with fresh water immediately.

In critical cases seek medical assistance.

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.

IMPORTANT NOTE

Do not dilute, this 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.



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TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Black / White / Grey	—
Solid Content	80% to 85 %	ASTM D 1644
Full Cure	7 Days	—
Temperature Resistance	-20°C — +75°C	—
Application Temperature	+5°C — +45°C	—
Touch Dry	4 Hours	—
Re-Coat able	24 Hours	—
Application Thickness	120μ to 150 μ / Coat WFT	—
Mixing Ratio by Volume	4:1.6	—
Abrasion Resistance	50 mg	ASTM D 4060
Part A Resin Density, g/m ³	1.54 ±0.02	ASTM D 1475
Part B Hardener Density, g/m ³	1.04 ±0.02	ASTM D 1475
Mixed Density, g/m ³	1.51 ±0.02	ASTM D 1475
Hardness Shore A	40 - 45	ASTM D 2240
Adhesion to Concrete	> 1.0 N/mm ²	ASTM D 4541
Crack Bridging	No Loss on Bond after extension of 3.2 mm	ASTM C 836
Hydrostatic Pressure @ 5 Bar	No Leakage	BS EN 12390
Water Permeability	Nil, mm (Water pressure 5 bar applied for 72 hours)	DIN 1048 -5 1991 - 06
Elongation at Break	700% to 800%	ASTM D 412
Tensile Strength	2.0 to 2.50 N/mm ²	ASTM D 412

All values given are subject to 5-10% tolerance and under standard lab conditions.

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

Rev 06, TDS_ASMACOAT WP 905, GCC 0225

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