Product Data Sheet

ASMACOAT WP 905

Two Component UV Resistant Polyurethane Fluid Applied Waterproofing Membrane

DESCRIPTION:
ASMACOAT WP 905 is a high-performance, two-component polyurethane waterproofing system that forms a seamless, flexible, and durable elastomeric membrane. Designed for both horizontal and vertical applications, it provides excellent adhesion to a wide range of construction substrates including concrete, blockwork, and cementitious surfaces.
Engineered for long-term protection, the system offers superior crack-bridging ability and, when finished with a UV-resistant topcoat, delivers enhanced durability with a **Solar Reflectance Index (SRI) > 100**, helping to reduce heat buildup and improve energy.

KEY PERFORMANCE PROPERTIES

- **Excellent Elasticity:** Accommodates substrate movement, allowing expansion and contraction without cracking or becoming brittle.
- **Superior Chemical Resistance:** Highly resistant to oxidation and degradation, ensuring long-term durability.
- **High Thermal Stability:** Maintains performance at elevated temperatures without melting or flowing.
- **Excellent Workability:** Easy to apply, ensuring smooth and efficient installation.
- **Strong Adhesion:** Bonds effectively to a wide range of substrates.
- **Seamless Application:** Forms a continuous membrane with no joints, minimizing leakage risks.
- **Easy Repairability:** Can be easily maintained and repaired if required.
- **UV Resistant:** Suitable for exposure to sunlight without significant degradation.
- **Long Service Life:** Designed for extended durability under exposed weather conditions.

AREAS OF APPLICATION

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

- **Roofs:** Suitable for both exposed and protected roofing systems
- **Roofing Systems:**
  - Under tiles (concealed waterproofing)
  - Above tiles (with UV-resistant topcoat)
- **Plaza Decks:** Podium slabs and landscaped decks
- **Terraces & Balconies**
- **Basements & Foundations**
- **Retaining Walls**
- **Tanking Applications:** Suitable for areas with aggressive groundwater conditions
- **Tunnels & Bridges**
- **Car Park Decks**
- **Planter Boxes**
- **Internal Wet Areas:** Kitchens, bathrooms, and wet zones
- **Water-Retaining Structures:** Fountains and pools
- **Sewage & Wastewater Structures**
- **Stairs, Stadiums & Tribunes**
- **Spa & Sauna Rooms**

- **SPECIAL APPLICATIONS**
- **UV-Resistant Topcoat:** For exposed applications requiring long-term UV stability
- **Roof Restoration:** Refurbishment of existing waterproofing systems
- **Protective Coating over Spray-Applied Polyurethane Foam (PUF):** Enhances durability and weather resistance of thermal insulation systems
- **Waterproofing over Structural Membranes:** Compatible with various existing membrane systems

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.

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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.

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 /old metal roof sheet 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 ASMACOAT WP 905.

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 number of coat to achieve a minimum dry film thickness of 1.0 mm. The coats must be applied at right angles to one another.

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

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 / m^2, 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 on 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.

CLEAN UP

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

IMPORTANT NOTE

Do not dilute for thinning, 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.

CERTIFICATIONS

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TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	White / Grey/Black	—
Solid Content	85 % ±5%	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	Thickness 1.00 mm / 1.51 Kg	—
Mixing Ratio by Volume	4:1.6	—
Abrasion Resistance	50 mg	ASTM D 4060
Part A Resin Density, g/m³	1.54 ±0.02	ASTM D 1475
Part B Hardener Density, g/m³	1.04 ±0.02	ASTM D 1475
Mixed Density, g/m³	1.51 ±0.02	ASTM D 1475
Hardness Shore A	>58 ±5	ASTM D 2240
Adhesion to Concrete	> 1.0 N/mm²	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	>600%	ASTM D 412
Tensile Strength	>4.2 N/mm²	ASTM D 412
Tear Resistance	>3.0 ±0.50	ASTM D 624
SRI	>100	ASTM E 1980

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

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department. ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

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