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ASMACOAT WP 900

Pitch Modified Polyurethane Liquid Applied Waterproofing Membrane

DESCRIPTION:

ASMACOAT WP 900 a cold-applied, pitch-modified polyurethane coating formulated to provide durable waterproofing and corrosion protection. The coating cures to form a seamless, tough, and flexible membrane with excellent adhesion to a variety of substrates. It offers good resistance to water, moisture, salts, and a wide range of environmental conditions, making it suitable for both above- and below-ground applications. The cured coating provides long-term protection against corrosion and is designed for use on concrete, steel, and other approved substrates.



KEY PERFORMANCE PROPERTIES

- Excellent adhesion to wide range of construction materials.
- one coat application for horizontal surface.
- cures to form a permanently flexible resilient barrier over a wide range of temperatures.
- Forms an impervious barrier which resists aggressive soil conditions.
- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures
- Capable of bridging substrate cracks up to 2 mm
- Easy to repair

AREAS OF APPLICATION

- **ASMACOAT WP 900** is easy to apply, cost effective and particularly used in:
- Balconies, terraces.
- Baths (showers), kitchens and difficult access spots.
- •Retaining Walls
- Stairs, stadiums, tribunes.
- Water channels and reservoirs.
- Foundation and Below Grade Structures,
- Concrete Roofs, Asbestos Roofs, Domes.
- Waterproof protective coating for polyurethane spray foam surfaces.

METHOD OF APPLICATION

ASMACOAT WP 900 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.

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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 surfaces, **ASMACOAT WP 900** coating can be applied directly.

However, it is recommended to apply a priming coat of **ASMACO PU 850 PRIMER** on all old and porous substrates, including PU spray foam, to improve the adhesion of the subsequent coating.

The priming coat **ASMACO PU 850 PRIMER** material shall be premixed thoroughly using a low RPM paddle mixer to ensure proper homogeneity of the mix. 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 at 40°C. The area should be re-primed if there is a delay in the application of the **ASMACOAT WP 900** for more than 24 hours depending on the area of application and the nature of the substrate.

C. 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.

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D. Application:
Application of **ASMACOAT WP 900** is to be done by using a suitable roller or brush. Large areas of application can be done by using an airless spray machine.
The thickness always must be applied with a multiple layers to achieve the recommended thickness 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 to 8 hours @ 40 °C.

For **higher strength** and flexibility, insert a non-woven geotextile membrane 60 GSM/ 70 GSM whilst the first coat is still wet on all corner joints, fillets, and pipe penetration joints. Allow the coating to fully cure for 7days to achieve its full properties.

IMPORTANT NOTE:
For optimum performance and to achieve the specified dry film thickness (DFT), apply the coating in multiple layers using a cross-coat application method (horizontal followed by vertical). The product may be applied by spray, roller, or brush. Allow each layer to reach its initial set or touch-dry condition before applying the next coat. Applying successive coats at the recommended intervals promotes uniform film thickness, enhances intercoat adhesion, minimizes application defects, and ensures maximum durability and long-term protective performance.

PACKAGING

ASMACOAT WP 900 is available in 20 Liter Pail.

CLEAN UP

Tools and equipment used for application of ASMACOAT WP 900 should be cleaned with ASMACO CLEANIR 1 after the usage.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ASMACOAT WP 900**. 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.

COVERAGE RATE

Theoretical Material Coverage by Application Thickness.

PRODUCT	PACKAGING	CONSUMPTION	THICKNESS	CONSUMPTION PER PAIL
ASMACOAT WP 900	26 Kg _ ≈ 20 Liter	1.300 Kg / 1 Liter	1 mm*	20 m²
ASMACOAT WP 900	26 Kg _ ≈ 20 Liter	0.650 Kg / 0.50	500 µm	40 m²
ASMACOAT WP 900	26 Kg _ ≈ 20 Liter	0.325 Kg / 0.20	250 µm	80 m²

*Product performance has been verified based on an application thickness of 1 mm and a coverage rate of 1.3 kg/m², and a warranty is provided accordingly.

TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Black	-
Full cure	7 days.	-
Service temperature	-20°C to +80°C	-
Application Temp	5°C to + 45°C	-
Density,	1.25 ±0.20 g/cc	ASTM D 1475
Solid Content	80 to 82 %	ASTM C 4
Tensile strength	1.2 to 1.6 N/mm²	ASTM D 412
Elongation at break	≥ 800%	ASTM D 412
Tear Resistance	8 to 12 N/mm	ASTM D 6424
Hydrostatic pressure @ 5 bar (50m)	No Leakage	BS EN 12390
Shore A Hardness	≥ 50	ASTM D 2240

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

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CERTIFICATIONS

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 ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE Technical Department.

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