

Product Data Sheet



ASMACOAT WP 900

Liquid Applied Polyurethane Waterproofing Membrane (Pitch Modified)

Product Description:

ASMACOAT WP900 is a liquid applied, single-component moisture-curing polyurethane coating. It is designed to form a seamless, elastomeric waterproofing membrane. When fully cured ASMACOAT WP900 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. The properties like high elasticity, very good crack bridging and impermeability to water vapour make it capable of effectively waterproofing even in most demanding conditions. It is an advanced state of water proofing system and offers tangible, cost saving benefits over conventional sheet and bitumen based systems.

Advantages:

- Single component ready for use.
- Does not create mess and objectionable odor like bitumen based materials.
- Excellent elasticity, allows expansion and contraction with the substrate, without brittle
- Excellent chemical resistance.
- High thermal stability which eliminates melting and flowing at high temperature.
- Excellent workability.
- Excellent adhesion to wide range of construction materials.
- Provides a continuous, seamless waterproofing membrane.
- Easy to repair.

Uses:

ASMACOAT WP 900 can be used for a wide range of waterproofing applications viz. Roofs, Basements and Foundations, Tunnels and bridges, Terraces and Balconies, Car Decks, Plaza Decks, Planter Boxes, Swimming pools, water storage tanks, pier, Retaining Walls, Internal Wet Areas (kitchens, bathrooms) etc. ASMACOAT WP 900 can also be used in sewage works and tanking applications in areas where aggressive ground water conditions prevail.

Surface Preparation:

New concrete surfaces should be fully cured. Substrate should be free from dust, oil, curing agent residues and other contaminants. Voids and honeycombs must be patched with concrete repair products. Allow the patched area to cure before applying the membrane. All metal surfaces should be made clean of paint, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean the surface prior to priming. Normally good quality concrete substrates do not require priming. However, porous surfaces require priming. To reduce blisters caused by air entrapment on rough and porous surfaces, use ASMACOAT WP 900 thinned in 3: 1 ratio with ASMACOAT WP SOLVENT (3 part ASMACOAT WP 900 and 1 PART ASMACOAT WP SOLVENT) as a primer. To join fresh applications of ASMACOAT WP 900 to those that are more than 48 hours old, apply diluted ASMACOAT WP 900 in 3: 1 Ratio with ASMACOAT WP SOLVENT as a primer at the interface. Expansion and movement joints should be sealed with ASMACO PU 90 / ASMACO PU 90 L PU Sealant. When cured, a 200 mm wide layer strip of ASMACOAT WP 900 should be applied centered over all sealed joints. While the membrane is still wet, cover with a correct cut stripe of fiber mesh and press it to soak. Saturate the fiber mesh with another coat of ASMACOAT WP 900 until it is fully covered. Allow curing before applying the waterproofing membrane.



Asmacoat WP 900

Self-Leveling

Weather Resistant

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Instructions for Use:

ASMACOAT WP 900 should be applied by brush, roller, trowel or airless spray in two coats to achieve a minimum dry film thickness of 1.0 mm. The second coat should be applied at right angle to the first one once the first coat is completely dry (but before 48 hours). ASMACOAT WP 900 membrane must be cured for a minimum of 24 hours at 25 °C before placing protection. Extended periods of exposure will require the provision of membrane to eliminate possible surface damage or to avoid contamination it is recommended to apply screed mortar bedding or protection boards. Tiling or finished flooring installations should be carried out as soon as possible after full cure of membrane is established. If protection board is used, a dust coat of cement should be used to prevent adhesion of the membrane to the boards. Where a bond with the topping is not required, a separator sheet should be used. Do not apply tile adhesives to ASMACOAT WP 900 membrane whilst the membrane is still uncured. To provide a good key with the membrane, spread the final wet coat of ASMACOAT WP 900 with sufficient clean silica sand.

Standard Compliance: ASMACOAT WP900 confirms to: • ASTM C836

Technical Data

Properties	Typical result
Appearance	Dark Brown to Black liquid
Application temperature range, °C	5 - 50
Service temperature range, °C	-40 - 70
Specific gravity	1.44 – 1.48
Solids, %	84 - 88
Full cure @ 25°C, 50% RH	7 days @ 1.3 mm thickness
Tack free time @ 25°C, 50% RH	15 - 24 hours
Swelling in water	Nil
Crack bridging	No loss, passes the test
Hardness, Shore A	30 - 35
Tensile strength, N/mm ²	1.30 – 1.50
Elongation at break, %	600 - 900
Tear resistance, N/mm	10 - 15
Modulus @100% Elongation, N/mm ²	1.20 – 1.35

Chemical Properties:

Good resistance against acidic and alkali solutions, detergents, seawater and oils.

Consumption:

Approximately 1.35 Kg/m² per millimeter thickness.

Cleaning:

Tools and equipment used for application of ASMACOAT WP 900 should be cleaned with ASMACOAT WP SOLVENT after use.

Packaging:

The product supplied into sealed metallic container of 20 Lt.

Storage:

Keep the product in tightly closed original containers in a dry place away from direct sunlight at a temperature between +5 and 30°C. The ASMACOAT WP 900 will have 6 months shelf life if stored in original unopened container below 25°C. A thin layer of skinning is considered normal and will not affect the performance of the product.

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Limitations:

Don't apply the product with imminent rain forecast, or on humid support. ASMACOAT WP 900 should not be applied on surfaces with a risk of rising dampness and should not be applied at temperature below 5 °C. The minimum application life for the opened pack is up to 48 hours if stored in closed and dry container. Water test should be run after the membrane is fully cured. For Bitumen substrates, contact the Technical Department at Anchor Allied Ltd for advice. During the peak temperature of the day in the summer season, working area should be covered to prevent direct sun effects.

Health & Safety: Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

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.

Non – Warranty: Because the storage, handling and application of the material is beyond Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Anchor Allied Factory Ltd will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.



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SILICONE SEALANTS • WATERPROOFING COATINGS • PU SEALANTS • POLYSULPHIDE SEALANTS • ACRYLIC & DUCT SEALANTS
POLYURETHANE FOAM • SPRAY PAINT • SILVER CLOTH DUCT TAPE • CREPE PAPER MASKING TAPE • ALUMINIUM FOIL TAPE
P.E. PROTECTION TAPE • PVC PIPE WRAP TAPE • CONTACT ADHESIVE • EPOXY STEEL • PVC CEMENTS • SUPER GLUE