

## Asian Paints SmartCare Waterproofing Membrane

APP Modified Polyester Sheet Reinforced Bituminous Membrane

### PRODUCT DESCRIPTION

Asian Paints SmartCare Waterproofing Membrane is a APP modified polyester fleece reinforced bituminous membrane for superior waterproofing. This membrane exhibits excellent tensile strength, tear strength, puncture resistance and dimensional stability. The torch side of the membrane is covered with polyethylene film for protection of the membrane.

### USES

Waterproofing /dampproofing membrane in horizontal and vertical applications for protection of various substrates like concrete, masonry, GI, aluminium, wood etc. in wide range of uses:

- › Accessible and non accessible medium to large roof slabs in domestic, commercial and industrial construction.( As per specified system for accessibility)
- › Basements and raft slabs
- › Swimming Pools
- › Roof Gardens
- › Underground car parks etc.
- › Bridges & Tunnels

### CHARACTERISTICS/ ADVANTAGES

- › Excellent flexibility
- › Excellent water tightness if applied as per recommended system and application
- › High tensile strength, tear and puncture resistance
- › Cost effective and durable in comparison to conventional low end waterproofing systems
- › Good temperature resistance to cold and warm temperatures
- › Good resistance to aging if applied properly as per proper systems

### PRODUCT DATA

#### FORM

#### APPEARANCE/ COLOURS

Black Colour, Two side polyethylene film for protection. Non Woven polyester fleece reinforcement.

#### PACKAGING

1.0 x 10 m roll (3 mm, 4 mm), 1.0 x 15 m roll (2 mm)

Tolerance +/- 1%

#### STORAGE CONDITIONS/ SHELF-LIFE

The membranes must be stored in a shaded area covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight and UV. The membranes shall be protected from all sources of heat and extreme temperatures. The shelf life is 5 years.

#### HANDLING PRECAUTIONS

The membrane is non-hazardous, non-flammable and therefore can be disposed of in any regular disposal areas. All membranes however should be disposed off only after wrapping with paper , plastic or cloth. In case of contact with human remove with some soft solvents. Seek medical assistance immediately in case of any allergy.

### TECHNICAL DETAILS

#### MECHANICAL AND PHYSICAL PROPERTIES

Test Parameter	Test Method (ASTM)	Standard	Typical Values
Thickness, mm	D 5147	ASTM D 6222-08	3mm/4mm
Unit weight, Kg/Sq.m, Minimum	In house	ASTM D 6222-08	3.62/4.62
*GSM, Gm/Sq.m, Minimum	In house	ASTM D 6222-08	160
Softening point, (°C), Minimum	D 36	ASTM D 6222-08	>150
Ultimate Elongation, %, Minimum, Longitudinal	D 5147	ASTM D 6222-08	50%
Ultimate Elongation, %, Minimum, Transverse	D 5147	ASTM D 6222-08	84%
Tensile strength, N, Minimum, Longitudinal, N/5 cm	D 5147	ASTM D 6222-08	712
Tensile strength, N, Minimum, Transverse, N/5 cm	D 5147	ASTM D 6222-08	480
Low Temperature Flexibility, °C	D 5147	ASTM D 6222-08	Pass (No Crack)
Tear strength, N, Minimum, Longitudinal	D 5147, D 4073	ASTM D 6222-08	340
Tear strength, N, Minimum, Transverse	D 5147, D 4073	ASTM D 6222-08	320

## APPLICATION CONDITIONS

**SUBSTRATE TEMPERATURE** +4°C min. / +45°C max

**AMBIENT TEMPERATURE** +4°C min. / +45°C max

## APPLICATION DETAILS

### SUBSTRATE QUALITY AND PREPARATION

- > Inspect the surface conditions.
- > The concrete surface should be levelled, tough and should not have hollow areas or pot holes.
- > Check hollowness by hammering and repair such areas as well as pot holes using polymer modified cement sand mortar.
- > Allow to cure for at least 72 hr before application of membrane.
- > Clean surface so that it is free from loose dust, particles, oil etc by brooming or vacuum cleaner.
- > Apply bitumen based primer as per recommended coverage and allow it to dry till tack free (about 6-8 hr)

### APPLICATION METHOD/ TOOLS

- > Unroll the membrane roll and align with proper marking at all over area. Re-roll the roll into its original form so that alignment is not disturbed.
- > Check the burner flame and ensure all adjustment and fine tuning of flame is done.
- > Use gas burner to heat primed substrate & underside of membrane to softening points. When the embossing disappears, roll forward & press firmly against substrate to bond from the lower end towards the higher end.
- > Keep overlap margin for minimum 100 mm between two adjoining membranes
- > Ensure that a constant flow of bitumen is maintained across the whole width of the roll and that a bead of bitumen is extruded from each edge which demonstrates that a good seal has obtained.
- > The Bitumen membrane applied all over the terrace, must be finished with a coating of aluminum paint for non-foot traffic area. For foot trafficked area, overlay with concrete screed mortar.

## VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

## PRECAUTIONS

Do not apply during rains or extreme temperatures.  
 Avoid abuses which may lead to puncturing of membrane.  
 Ensure that the product is applied at least 6 inches inside the drain pipe.  
 Apply parapet to parapet to envelope the entire building for long term performance.

## SAFETY FEATURES

Kindly refer to the MSDS for Asian Paints SmartCare Waterproofing Membrane which gives detailed information on safety measures while handling the paint, which is available on request.  
 Store in a cool, dry place.  
 Keep out of reach of children and away from eatables.  
 May be harmful if swallowed. In case of ingestion seek immediate medical attention.  
 Eye protection during application is recommended.  
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 In case of skin contact skin with soap and plenty of water. Get medical attention if irritation develops or persists.  
 It is recommended to wear suitable nose pad during torching application and surface preparation.  
 Dispose as per recommendation mentioned above.  
 No added Lead, Mercury or Chromium compounds.