Construction

Asian Paints SmartCare Waterproofing Membrane

APP Modified Polyester Sheet Reinforced Bituminous Membrane (2 mm, 3 mm, 4 mm)

PRODUCT DESCRIPTION

Asian Paints SmartCare Waterproofing Membrane is a APP modified polyester sheet 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 /damproofing 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
- 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 ageing if applied properly as per proper systems

PRODUCT DATA

FORM APPEARANCE/ COLOURS

Black Colour, Polyethylene protection film for protection. Non Woven hybrid 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 vertically stacked and 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 should 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 skin wash with any soft solvents. Seek medical assistance immediately in case of any allergy.

TECHNICAL DETAILS

CHEMICAL PROPERTIES

Chemical Base: APP modified bituminous, hybrid fleece reinforced

MECHANICAL AND PHYSICAL PROPERTIES

Test Parameter	Standard (ASTM/EN)	2 mm	3 mm	4 mm
Thickness, mm	ASTM D 5147	2 ± 0.1	3 ± 0.1	4 ± 0.1
Unit weight, Kg/Sq.m	ASTM D 6222	2.7	3.905	3.905
Softening point, (°C)	ASTM D 36	150	145	150
% Elongation at break, Longitudinal	ASTM D 5147	40	40	40
Tensile strength Longitudinal, N/5 cm	ASTM D 5147	700	700	700
% Elongation at break, Transverse	ASTM D 5147	50	50	50
Tensile strength transverse, N/5 cm	ASTM D 5147	450	550	550
Low Temp. Flexibility, °C	ASTM D 5147	Pass at 0	Pass at 0	Pass at 0
Tear strength Longitudinal, N	ASTM D 4073	356	356	356
Tear strength Transverse, N	ASTM D 4073	356	356	356

Construction

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 hours before application of membrane
- Clean the 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 hours)

APPLICATION METHOD/ TOOLS

- Unroll the membrane and align with proper markings at all over area. Re-roll the roll into its original form so that alignment is not disturbed
- Point the torch towards the primed surface and then on the underside of the membrane. Torch till the compound reaches its softening points. The best visual to confirm this is when the embossing on the membrane starts to disappear. Roll the membrane forward while firmly pressing it to the substrate so that it bonds
- Keep overlap margin for minimum 100 mm between two adjoining membranes for end laps and a minimum of 50mm for side laps
- 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 all 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 trafficable area. For foot trafficable 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 membrane, 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 wash 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.

Version No. VN06/01/2016