

**PRODUCT CODE: 5473 (2mm), 5461 (3mm), 5463 (4mm)**  
**SMARTCARE APP MODIFIED POLYESTER SHEET**  
**REINFORCED BITUMINOUS MEMBRANE (2MM, 3MM, 4MM)**



## PRODUCT DESCRIPTION

Asian Paints SmartCare Waterproofing Membrane is a five-layered system with 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.

## AREAS OF USAGE

Waterproofing /Damp Proofing membrane in horizontal and vertical applications for protection of various substrates like concrete, masonry, GI, aluminum, 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)
- Roof Gardens
- Basements and raft slabs
- Swimming Pools
- Underground car parks etc.
- Bridges & Tunnels

## FEATURES & BENEFITS

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

## PRODUCT DETAILS

**Colour:** Black Colour, Two side polyethylene film for protection. Non Woven polyester fleece reinforcement.  
**Dimensions:** 1.0 x 10 m roll (3 mm, 4 mm), 1.0 x 15 m roll (2 mm), Tolerance +/- 1%  
**Shelf Life:** 3 years if stored as per recommendation

## TECHNICAL DETAILS

**Chemical Property:** APP modified bituminous, polyester fleece reinforced

**Physical/ Mechanical Properties:**

**ASTM Standard:** ASTM D 6222-08

Sr. No.	Parameter	Typical Values		
		2mm PY	3mm PY	4mm PY
1	Sample Description	2mm PY	3mm PY	4mm PY
2	Top Face	Plain Finish	Plain Finish	Plain Finish
3	Thickness, mm	2	3	4
4	Unit Weight, Kg/m <sup>2</sup>	Min 2.5	Min 3.0	Min 3.90
5	Tensile Strength (N/5cm), Longitudinal	500	600	650
6	Tensile Strength (N/5cm), Transverse	450	550	600
7	% Elongation at break, Longitudinal	30	45	45
8	% Elongation at break, Transverse	30	40	40
9	Tear Strength, Transverse	400	350	330
10	Tear Strength, Longitudinal	250	320	320
11	Low Temp Flexibility, 0°C	No Cracking	No Cracking	No Cracking
12	Softening Point (°C)	≥ 150	≥ 150	≥ 150
13	Compound Stability at 110°C, 2 hrs	No Flow	No Flow	No Flow
14	Dimensional Stability, 80°C	No change	No change	No change
15	Resistant to water pressure @ 5Bar	No Leakage	No Leakage	No Leakage
16	% Water Absorption	Max 3	Max 3	Max 3

17	Lap Joint Strength, Longitudinal	550	650	650
18	Lap Joint Strength, Transverse	450	550	600

## APPLICATION CONDITION

**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 broom 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

1. 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.
2. Check the burner flame and ensure all adjustment and fine tuning of flame is done.
3. Use gas burner to heat primed substrate & underside of membrane to softening points. When
4. the embossing disappears, roll forward & press firmly against substrate to bond from the lower end towards the higher end.
5. Keep overlap margin for minimum 100 mm between two adjoining membranes
6. 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.
7. 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.

Tolerance:- Thickness: - ±10%, Longitudinal Tensile Strength: ± 150 N/5cm, Transversal Tensile Strength: ± 150 N/5cm

## 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.

## STORAGE & HANDLING

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 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.

## SAFETY FEATURES

- 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.
- 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.