DAMP SAFE
WATERPROOFING

ASTRAL® PAINTS

TECHNICAL DATA SHEET: VER NO. 01 | DATE: 01.05.2025

Astral Damp Safe is a waterproofing coating for exterior vertical and horizontal surfaces like terraces, sunshades, parapet walls and also as a water proofing base coat for Astral Exterior Emulsions.

PRODUCT BENEFITS/FEATURES

5 YEARS WARRANTY*

- FLEXIBLE COATING
- CRACK BRIDGING ABILITY
- EASE OF APPLICATION
- WATERPROOF COATING

HOW TO APPLY

SURFACE PREPARATION: For best results, proper surface preparation is essential. Newly plastered surfaces should be allowed to cure completely. The roof must have positive slope/drainage system to avoid water ponding at places. The surface to be painted should be clean, dry and free from dust, dirt or loose particles, grease, chalking, etc. Remove all existing bitumen coating completely. Any previous growth of fungus, algae or moss needs to be removed thoroughly. It is recommended to use vigorous wire brushing, vacuum cleaner and high-pressure water-jet-cleaning for thorough cleaning of the surface to avoid Peeling off problems.The substrate must be tested for its soundness using small hammer. All cracks at corner joints, channels, and parapets should be properly treated.Fill the cracks up to 3 mm using crack filling compound. Bigger cracks, damaged portions, and hollow areas must be repaired with polymer modified cement mortar.

APPLICATION

HORIZONTAL SURFACES

PRIMING COAT: Dilute a litre of Astral Damp Safe with 300 ml water and apply a self priming coat of it as per suggested coverage of 5.0 - 5.4 sq.m/litre/coat and let it dry for 4 - 6 hours.

WATERPROOFING COAT: Apply two undiluted coats of Astral Damp Safe perpendicular to each other at 3.2 - 3.5 sq.m/litre/coat and let it dry for 4 - 6 hours in between coat.

VERTICAL SURFACES : NEW EXTERIOR SURFACE

PRIMING COAT: Dilute a litre of Astral Damp Safe with 300 ml water and apply a coat as apply a coat of it as per suggested coverage of 8.0 - 8.2 sq.m/litre/coat and let it dry for 4 - 6 hours.

Waterproofing Coat: Apply one undiluted coat of Astral Damp Safe at 7.0 - 7.5 sq.m/litre/coat and let it dry for 4 - 6 hours. Apply 2 coats of preferred Astral range of Exterior Emulsion as per recommended dilution.

REPAINTING EXTERIOR SURFACE

Waterproofing Coat: Apply one undiluted coat of Astral Damp Safe at 7.0 - 7.5 sq.m/litre/coat and let it dry for 4 - 6 hours. Apply 2 coats of Preferred Astral range of Exterior Emulsion as per recommended dilution.

Packaging

Finish

Matt

Smooth

Areas of Application

Terrace

Sunshades

Concrete Roof

Vertical Walls

Coverage

On normal masonry surface by brush/roller/spray

Horizontal Surface

Primer Coat - 5.0 - 5.4 sq.m/litre/coat

Waterproof Coating - 3.2 - 3.5 sq.m/litre/coat

Vertical Surface

Primer Coat - 8.0 - 8.2 sq.m/litre/coat

Waterproof Coating - 7.0 - 7.5 sq.m/litre/coat

**Actual coverage may vary from the quoted coverage due to factors such as method and condition of application and surface roughness and porosity.

POST PAINTING CARE

For the best performance of the paint, ensure proper washing and cleaning of all algae and fungal growth at regular intervals of six months.

COLOURS AVAILABLE

White

TECHNICAL DETAILS

DRYING TIME : Surface Dry 30 Minutes

RECOATING TIME : 4 - 6 Hours at 30°C and 65% RH

SHEEN LEVELS : 2 - 5 at 60 Degree GH

FLASH POINT IS101/1987 PART 1, SEC 6 : N/A

STABILITY OF THINNED PAINT : To Be Used Within 24 Hours

VOC CONTENT : < 50 gm/litre

RECOMMENDED SYSTEM FOR APPLICATION FOR NEW MASONRY SURFACE

HORIZONTAL SURFACE

Step 1 Astral Damp Safe Self Priming Coat (1 Coat) - Dry in 4 - 6 Hours

Step 2 Astral Damp Safe Waterproofing Coat Perpendicular to Each Other (2 Coats), Dry minimum 4 - 6 hours in between coats

VERTICAL SURFACE
NEW EXTERIOR SURFACE

Step 1 Astral Damp Safe Priming Coat (1 Coat) - Dry in 4 - 6 Hours

Step 2 Astral Damp Safe Waterproofing Coat (1 Coat), Dry Minimum 4 - 6 Hours

Step 3 Astral Range of Exterior Emulsion (2 Coats*), Dry Minimum 3 - 4 Hours in Between Coats

REPAINTING EXTERIOR SURFACE

Step 1 Astral Damp Safe Waterproofing Coat (1 Coat) Dry Minimum 4 - 6 Hours

Step 2 Astral Range of Exterior Emulsion (2 Coats*), Dry Minimum 3 - 4 Hours in Between Coats

*Some dark shades may require 3 or more coats to get proper hiding

SAFETY FEATURES

- Kindly refer to the MSDS for Astral Damp Safe which gives detailed information on safety measures while handling the primer.
- Store the container with the lid tightly closed in an upright position, in a cool, dry place.
- Keep out of reach of children and away from food, drink, etc.
- May be harmful, if swallowed. In case of ingestion, seek immediate medical attention.
- Wear eye protection during application. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
- Do not breathe vapour or spray. It is recommended to wear suitable nose pad during sanding and surface preparation to avoid dust inhalation.
- Do not pour leftover paint down the drain or in water courses.
- In the event of spills, contain spillage using sand or earth.
- Safety Data Sheet available for professional user on request.
- No added Lead, Mercury or Chromium compounds.

PRECAUTIONS

- Do not apply when ambient temperature is less than 10°C or if the temperature might drop to this level within 4 hours of application.
- In high humidity areas, make sure to remove surface fungus growth, fungal spores, mould etc. before application of paint.
- Do not overthin the paint.
- Thinned paint should be used within 24 hours.
- Repair hollow surface area before applying Astral Damp Safe.
- For horizontal surfaces use, use joint tapes at all joints and corners for better reinforcement.
- For oily, failure coating surface, carry patch tests to check adhesion of product to substrate.
- For best long-term performance, It is recommended to ensure coverage per coat as per data sheet only.
- Do not apply during rains or extreme temperatures.
- Not recommended for rain water harvesting purpose.
- Avoid abuses which may lead to puncturing of the membrane.
- Ensure that product is applied at least 6 inches inside the drain pipe.
- For best results apply coating on parapet walls as well
- For surfaces like tiling, smooth and glossy cementitious surface, product should be used with Terrace Tile Primer..

TECHNICAL DATA

PERFORMANCE PARAMETER	COVERAGE SQ.M/L	VALUES FOR ASTRAL DAMP SAFE
Pull off Adhesion Strength (ASTM D 7234-2022) Dry Concrete	1.3.	1.81 Mpa
Tensile Strength [ASTM D 2370-2016]	1.3	3.06 Mpa
% Elongation [ASTM D 2370-2016]	1.3	269% (Horizontal)
Crack Bridging Ability EN 1062-7 A	1.3	2 mm (Horizontal)
Depth of Water Permeability [EN 12390-8-2019] @ 5 Bar	1.3	Nil
Overcoating Time Interval	-	4 - 6 Hours @ 30°C
Weight Per Litre/Specific Gravity - IS 101	-	1.23 to 1.33 @ 30°C
Carbon Dioxide Permeability (EN 1062-6)	2.3	1.33
Carbon Diffusion - Equivalent Air Layer Thickness (EN 1062-6)	2.3	187
Diffusion Resistance Number (EN 1062-6)	2.3	9.85 x 10 5

DISCLAIMER: This technical data sheet replaces all previous versions of it from the immediate effect. The information, and, in particular, the recommendations relating to the application and end-use of this product, are given in good faith based on our knowledge and experience of the products when properly stored, handled and applied under suitable favourable conditions in accordance with application instructions recommended in product technical data sheet. It is for guidance only. The physical value may vary due to normal manufacturing tolerance, colour and testing variances. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. For the products on which company is offering warranty, please refer to warranty document to know entire terms and conditions. The same can be availed on request or from company website. The values mentioned in the above tables in technical data sheet are obtained in controlled lab conditions when tested properly by competent laboratory. Tolerance up to five to ten percentage on the lower side from the above values are allowable. Astral Coatings Private Limited reserves the right to change the properties of its products without notice. The end user of the product must test the product's suitability for the intended application and purpose. Astral Coatings Private Limited will not bear any responsibilities on the product failure if it is wrongly positioned or if improper application methodology is adopted by the user or the applicator. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product technical data sheet for the product concerned, copies of which will be supplied on request. No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for the customer's use and for ensuring that the customer's workplace, and disposal practices are in compliance with applicable laws and other governmental enactments.

Astral Coatings Private Limited
Registered Office: 207/1, 'Astral House', B/h Rajpath Club, Off S.G. Highway, Ahmedabad-380059, Gujarat, India.
Toll Free: 1800 309 9393
E-mail: customercare@astralpaints.com **Website:** www.astralpaints.com

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