

DESCRIPTION

AC-500 is elastomeric, single pack roofing compounds are characterized by excellent hardness, strength, water resistance and weatherability.

USES

AC-500 is basically used for concrete roof, metal roof, polyurethane foam insulation, single ply roofing.

ADVANTGES

- Provides a seamless, durable membrane.
- Superior adhesion to various substrates.
- Excellent U.V protection for polyurethane foams.
- Heat reflective coating helps reduce cooling cost.
- Prevents premature degradation.
- Easy to use non toxic water base coating.

COLORS

Satin white & gray

Others color available on request.

INSTALLATION

Surface preparation

All surfaces to be clean, dry and free from dust, rust and laitance. Sweep and power wash area to remove all dust, dirt, loose granules and residue. Scrub area where water ponds with detergent and water, and rinse well. Carefully inspect area to be coated, including around pipes, chimneys, equipments, roof edges and walls.

Repair all cracks, breaks, splits and holes by embedding glass mesh between 2 heavy coats of **AC-500**. On metal roofs, tighten all fasteners, and seams with cap mastic.

Priming

- Old asphalt surfaces and bituminous roofing felt – cut felt blisters cross wise dry and rebound

with suitable adhesive. Then prime cleaned surface with **AC-500** diluted with 20 % water.

- Concrete and Terrazzo tile roofs Prime with **AC-500** diluted with 20 % water.
- Metal Roof- Clean and remove all rust and apply a rust inhibitive primer.
- Other roofs- If the roof is affected by algae or fungal growth use a stiff brush to remove this, before treating the cleaned surface with a suitable fungicide. Apply primer coat by diluting **AC 500** with 20 % water.

Application

AC-500 can be applied by brush, roller, squeeze or spray equipment. Apply to clean dry surface, do not dilute coating.

Stir coating to a uniform consistency and apply by spray, deep pile paint roller, or brush, keep strokes in one direction. Apply in two coats at the recommended rate for substrate. Allow to dry thoroughly between two coats. Second coat should be applied as soon as first coat dried up. Apply second coat at right angles to first coat. Where substantial movement anticipated in the structure Reinforce **AC-500** by incorporating mesh reinforcement as part of membrane system. Lay the mesh in wet first coat before application of subsequent coat.

All detailing to pipes, up stands, drains, projected line etc should be mesh reinforced in this way.

COVERAGE

1 m²/per liter will provide approx 500 μ dft .

MECAHNICAL PROTECTION

Accessible Roofs can be protected by in situ concrete screed. Place a non woven polyester separation layer over the acrylic waterproofing membrane followed by insulation boards. Lay Kraft

paper or polyethylene sheet as separation layer over the insulation boards and place the topping screed of 4 to 5 cm thickness or suitable cement tiles.

Non Accessible roof

Place non woven polyester separation layer over the acrylic waterproofing membrane followed by insulation boards. Cover the insulation with another layer of non –woven polyester separation layer and place 15-30 mm wash gravel to a minimum depth of 5 cm. for thicker insulation board the gravel depth should be at least equivalent to that of board thickness.

PACKING

15 kg pail and 250 kg drum

STORAGE

Keep away from direct sun light and preferably store at 5- 30⁰ C.

SHELF LIFE

12 months in unopened closed containers

PRECAUTIONS

Never apply if Rain is imminent.
Bitumen and asphalt surfaces should be thoroughly dry.
Do not apply below 5⁰ C temperature.
Do not use in areas which will be constantly submerged in water.

HEALTH AND SAFETY

AC-500 is non toxic and non flammable whilst wet. Avoid prolong skin contact. Use of barrier cream, gloves is advisable. If comes in contact with eyes, open eyelids widely and flush immediately with plenty of water. If ingested seek medical attention.

TECHNICAL DATA

Property	Values	Test method	Specs
Color	White or any custom color		
Viscosity Cps	50,000-70,000	Brookfield DVI+	
Solid % by Weight	>60	ASTM D-1644	ASTM D-6083
Unit wt kg/liter	1.30 ± 0.05	ASTM D-1475	
Tensile strength Psi	≥200	ASTM D-2370	ASTM D-6083
Elongation %	≥ 100	ASTM D-2370	ASTM D-6083
Flexibility at 0 ⁰ C	Passes 1/2 inch mandrel test	ASTM D-522	
Water swelling	≤ 20 % by mass	ASTM D-471	ASTM D-6083
Flash point	None (Water base)		
Dry time hrs @ 25 ⁰ C	dry to touch in 4-6 hrs		
Recoating time hrs @ 25 ⁰ c	12-24 hrs		

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TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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