

## ROOFCOAT 3

### DURABLE REINFORCED ACRYLIC WATERPROOF COATING FOR TERRACE

#### DESCRIPTION

**ROOFCOAT - 3** is a heavy duty durable terrace waterproofing system, composed of specially developed highly elastic & durable acrylic polymers, incorporated graded fillers, lightfast & weather durable pigments, micro-fibers, additives etc. It can be used as a liquid applied waterproofing membrane for all types of building terraces. Roofcoat is a three-layer system with different in coats. Colors ensure proper build-up of the thickness, making it a reliable waterproofing system.

#### FEATURES & BENEFITS

- Film thickness – provides higher dry film thickness of 1 to 1.25 mm in three coat application.
- Crack bridging - Bridges cracks up to 2 mm width.
- Application advantage - No need to remove existing sound BB coba, plaster, concrete surface.
- Can be used for flat as well as sloping roofs.
- Higher tensile strength, tear resistance & bond strength with cementitious substrates.
- Forms elastic & resilient coating so helps to withstand the structural movements.
- Resistant to UV & weather conditions.
- No additional protective coating is required for roof subjected to foot traffic.
- Can be applied by brush & roller easily.
- Light in weight; does not add extra weight over the roof.
- It is Non-toxic in nature.
- It is Breathable.

#### AREAS OF APPLICATION

- Building roofs / terraces– flat & slope.
- Over existing cementitious waterproofing treatments like brick-bat coba, concrete screeds, acrylic coatings, etc.

#### TECHNICAL INFORMATION

Sr. No	PROPERTIES	SPECIFICATION	TEST VALUE
1	Solid content, %	tga/Dta analyser	70%
2	Polymer content, %	tga/Dta analyser	36%
3	Hardness (Shore A)	ASTM M D 2240: 2002	70
4	Tensile Strength, N/mm <sup>2</sup>	ASTM M D 412: 2002	2.5
5	Elongation at Break, %	ASTM D 412: 2002	80%

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6	UV Resistant – accelerated	ASTM G 154: 2000	Excellent: No thermal degradation,
7	Weathering (2000 hours)		cracking, chalking and discoloration
8	Adhesion Strength, N/mm <sup>2</sup>	ASTM D 4541: 2002	1.0
9	Water vapour transmission	ASTM e 96: 2000	10 g/m <sup>2</sup> /day
10	Algae & fungus Resistant	SS 345: 1998	No algae & fungus growth
11	Crack Bridging	ASTM c 836: 1995	a) No cracks up to 2 mm width b) No cracks up to 1 mm (10 cycles)
12	Rapid chloride permeability	ASTM c 1202 – 97	very low
13	Water permeability (Depth of Penetration at 5 bar pressure)	BS EN 12390, part 8:2000	6

## METHOD OF APPLICATION

### SURFACE PREPARATION

Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.

Ensure that the roof slope is proper. In existing old terraces such as brick-bat-coba or screeds, the substrate must be checked for its soundness. Damaged or hollow portions, sharp edges, etc. must be cut and repaired with a polymer-modified screed.

Surface cracks must be filled with Paintex or Techoxy putty or polymer-modified mortar in case of wider cracks. Bitumen based waterproofing treatments must be completely removed by mechanical scarification or by any other effective mechanical means.

### APPLICATION

- Apply one coat of sealer coat at the rate of 8-10 m<sup>2</sup> per liter. Allow it to dry for 2-3 hours.
- Apply the first coat of Roofcoat-3 at the rate of 2 m<sup>2</sup> per liter and allow it to dry before applying the second and third coat, the rate of application being the same.
- The sequence of colors vis-a-vis ivory, grey and ivory can be decided depending on the desired top coat color.
- In case only two colors are being used, ensure that the color of the first and the third coat are the same.
- This would ensure correct consumption of material that will deliver a total Dft of 1 mm.
- Drying time between coats will be 6 to 8 hours.
- Ensure that the primer and the 3 coats of Roofcoat-3 totally achieve a minimum thickness of 1 mm Dft.
- Allow the system to air cure for 7 days minimum.

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### COVERAGE

2 sq.m. / liter/coat/ 1mm thickness

### PACKAGING

4 liters & 20 liters

### SHELF LIFE & STORAGE

- Shelf life is 24 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place

### PRECAUTIONS & LIMITATIONS

- All corners, gaps, joints, protrusions & outlets shall be coated with two extra coats.
- Do not apply during rains; substrate must be in SSD condition for application of primer.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment's.

Note: to achieve the full-proof waterproofing, parapet walls must be covered with Futura 5.