



TERRACOAT™

TRANSPARENT UV RESISTANT READY TO USE WATERPROOFING COATING

- Transparent finish hence does not hide the beauty of china chips / mother surface
- Excellent penetration in the surface due to very low particle size
- Provides excellent waterproofing properties
- Crack bridging ability.
- Highly flexible with high tensile strength and bond strength
- Imparts excellent waterproofing to the terrace
- High abrasion resistance
- Excellent resistance against UV, Infrared rays, algal and fungal growth
- Easy in application- can be applied by brush, roller or spray. "Do-it-Yourself"
- Ecofriendly due to very low V.O.C.

ApcoBuild TerraCoat is speciality transparent UV resistant ready to use waterproofing coating. It is manufactured by employing state-of-the-art technology

AREAS OF APPLICATION

- Terrace areas with china chips.
- Recommended for paver block
- Recommended for Bridges and RCC Structures
- Recommended for Mivan Structures
- On Painted vertical wall
- On Texture surface

ADVANTAGES

- Transparent finish hence does not hides the beauty of china chips / paver block / mother surface
- Excellent penetration in the surface due to very low particle size (Nano Emulsion)
- Provides excellent waterproofing properties
- High crack bridging ability.
- Highly flexible with high tensile strength and bond strength
- Imparts excellent waterproofing to the terrace
- High abrasion resistance
- Excellent resistance against UV, Infrared rays,algal and fungal growth
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TECHNICAL INFORMATION

Appearance	Milky White Liquid
Coverage	30-35 sqft/Kg for 3 coats (May vary depending on the surface)
Application Temperature	25-40°C
Bond Strength (N/mm ²)	More than 3.5

APPLICATION METHOD

Surface Preparation:

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles
- The surface to be coated with ApcoBuild TerraCoat should be completely dry if wash with water. (Extra care must be taken to see that there is no stagnant or standing water, Any such water must be mopped off)

Application :

- Apply one coat of ApcoBuild TerraCoat with brush, roller or spray. If applied by brush or roller the coat should be applied in one direction only. Allow it to dry completely for 1-2 hours
- Apply the second coat of ApcoBuild TerraCoat on the dried first coat. If applied by brush or roller, the second coat should be applied in the direction perpendicular to the first coat. Allow it to dry for 1-2 hours.
- Apply the third coat in the direction of first coat and allow it to dry completely for 2-3 days

SHELF LIFE

6 months

PACKAGING

26 kg.

PRECAUTIONS AND LIMITATIONS

- Do not apply on wet surfaces. The surface coated with ApcoBuild TerraCoat should be allowed to dry completely for at least 3 days without water contact and foot traffic movement should not be allowed for 3 days from the date of completion of coating.
- The product is specifically designed for foot traffic and not for vehicle or equipment/machinery movement.
- All the corners, joints, protrusions and outlets should be coated with two extra coats of ApcoBuild TerraCoat

HEALTH AND SAFETY

Keep out of reach of children. Keep in cool place. If in contact with eyes, rinse with plenty of water and seek medical attention if irritation develops. If in contact with skin, wash immediately with plenty of soap and water.

Recommended use in construction segment.



apcotex industries limited

Plot No. 3/1, MIDC Industrial Area, Talaja-410 208, Dist-Raigad, India
Tel : +91-22-2740-3500 Fax : +91-22-2741-2052
Email : apcobuild@apcotex.com Website : www.apcobuild.co.in

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 brickbat coba, plaster, concrete surface
- Suitability - Can be used for flat as well as sloping roofs
- Strength - Higher tensile strength, tear resistance & bond strength with cementitious substrates
- Resilience – Forms highly elastic & resilient coating so helps to withstand the structural movements
- Durability – Resistant to UV & weather conditions
- Abrasion resistant – No additional protective coating is required for roof subjected to foot traffic
- Ease of application – Can be applied by brush & roller easily
- Weight addition – Light in weight does not add extra weight over the roof
- Toxicity – It is non-toxic in nature
- Breathability – It is breathable Easy to recoat existing surfaces coated earlier with Apcobuild Topguard

AREAS OF APPLICATION

- Building roofs / Terraces– Flat & sloping.
- Over existing cementitious waterproofing treatments like brickbat coba, concrete screeds, acrylic coatings, etc.

APPLICATION METHOD

1 SURFACE PREPARATION

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- In existing old terraces with brickbat coba or screeds, the substrate must be checked for its soundness.
- Damaged or hollow portions, sharp edges, etc. must be cut and removed till the mother slab. The slab should be recoated with slurry of Apcobuild Seal N Safe and cement in 1:1 proportion. After drying, the brickbat coba in that portion should be reinstated by mixing Apcobuild Seal N Safe in the base slurry as well as while doing the top coba. In other areas, where the coba is sound, the surface cracks must be filled with Apcobuild Crack X Powder or polymer-modified mortar in case cracks are wider than 5mm. Cracks less than 2 mm, should be cleaned free of dust with a vacuum cleaner. Dilute Apcobuild Topguard with water in 1:1 mixing ration as primer coat, in the crack and let it dry. Then pour Apcobuild Topguard into these cracks and wait for it to dry. Ensure that the roof slope of a minimum of 1 in 100, is already provided. Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means.

2 APPLICATION

- Dilute 2 parts of Apcobuild Topguard with 1 one part of water. This dilution will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs.
- Apply the first coat of Apcobuild Topguard without any dilution at the rate of 2 m² per litre and allow it to dry before taking up the second and third coats, the rate of application being the same. In larger roofs, an open woven glass fibre mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fibre mesh on it. After the coat dries, start applying the 2nd coat of Apcobuild Topguard. This improves the performance of the coating dramatically, to take care of all movements in cracks and cold joints in the substrate caused by variations of high and low temperatures. This reinforcement with fibre mesh shall be extended up to the drip mould over the angle fillets. Drying time between coats will be 6 to 8 hrs. Allow the system to air cure for 7 days minimum. A total thickness of 1 to 1.2 mm must be achieved when Apcobuild Topguard is dry. 7 days after application of Apcobuild Topguard, it should be checked for its adhesion to the substrate. For this, mark a square of 5 cm x 5 cm, for every 200 sq. m of the area. Cut the square with a knife diagonally across the square. Rip the coating and check the coating's thickness with vernier callipers, to see if the dry film has an average thickness of 1 mm. This should be done in every 200 m². over the entire roof. Once these tests are done, reapply Topguard over these portions, in accordance with the regular procedure.

3 MAINTENANCE & RECOATING OF Apcobuild Topguard

Over a period of time or some years, if Apcobuild Topguard has developed cracks on exposure to weathering or extreme temperature variations, it is extremely easy to recoat over it again, with only one coat of application of Apcobuild Topguard. Cracks if any, can be treated by placing a fibre mesh over a recoat, while it is still wet. After this dries, it would need an additional coat over the mesh to strengthen the area. In rest of the area where there are no cracks or damage on the surface, you can just go in for only one coat of Apcobuild Topguard, after properly sanding the surface.

4 POST APPLICATION CHECKLIST

- Conduct ponding test by filling water up to 50 mm height for 48 hours to ensure leak-free terrace.
- Testing of the coating thickness can be carried out in an area of 1 metre X 1 metre area of the roof, to check the thickness. In this area mark at least 5 squares of 5 cm X 5 cm.
- With a knife, each square must be cut diagonally and rip it. The dry film thickness of the membrane shall be checked with a Vernier Calliper, which should measure 1 mm. 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.
- Do not apply Apcobuild Topguard over expansion or moving joints

PROPERTIES	SPECIFICATION	RESULTS
Solid Content, %		69
Hardness (Shore A)	ASTM D 2240 : 2002	80
Tensile Strength, N/mm ²	ASTM D 0412 : 2002	2.6
Elongation at Break, %	ASTM D 0412 : 2002	200
UV Resistant- Accelerated Weathering (1000 hours)	ASTM D 0154 : 2000	Excellent No thermal degradation, No cracking, chalking and discoloration
Adhesion Strength, N/mm ²	ASTM D 154 : 2000	0.9
Water Vapour Transmission	ASTM E 096 : 2000	19 g/m ² /day
Algae & Fungus Resistant	(SS 345: 1998)	No algae & fungus Growth
Crack Bridging		a) No cracks up to 2 mm width b) No cracks up to 1 mm (10 cycles)
Rapid chloride, permeability	ASTM C 1202 : 97	Very Low
Water Permeability (Depth penetration at 5 bar	BS EN 12390, Part 8:2000	6