

## **SAMBOND® TC** TERRACE WATERPROOF COATING (ACRYLIC-BASED)



### DESCRIPTION:

- SAMBOND® TC is a high performance terrace waterproof coating system, composed of specially developed elastic and resilient acrylic polymers, graded fillers, lightfast and weather durable pigments, additives and best quality fungicidal in water medium. It is used as liquid applied waterproofing membrane for all types of building terraces. SAMBOND® TC is a three layer system to provide final thickness of 1 mm.
- SAMBOND® TC is designed to bridge shrinkage cracks. It provides a seamless, flexible waterproof coating suitable for terraces. This product provides a tough durable water resistant coating which can withstand light pedestrian traffic and also has excellent weather resistance for exterior applications.

### ADVANTAGES:

- Provides quite efficient protection to concrete.
- Impermeable to water (without pressure) (prevent penetration of water) but at the same time permeable to water vapour.
- High resistance to the effect of long-term weathering.
- Durable in all climate conditions including UV attack.
- Flexible, with thermal expansion similar to concrete.
- Excellent bond to concrete and masonry.
- Good crack accommodation capacity.
- Provides higher DFT of 1-1.25 mm in three-coat application.
- Can be done on existing IPS on terrace.

### RECOMMENDED APPLICATIONS:

- Building roofs / terraces – flat and sloping.
- Over existing cementitious waterproofing treatments like brickbat coba, concrete screeds, acrylic coatings etc.

## PRODUCT DATA:

<b>Form</b>	Liquid
<b>Base</b>	Acrylic polymer
<b>Colour</b>	White
<b>Specific gravity</b>	1.30 at 25 C
<b>Ultimate elongation</b>	200%
<b>Coverage/ Consumption</b>	1.6 m <sup>2</sup> per kg per coat
<b>Potlife</b>	30 min @ 27 C
<b>Shelf life</b>	12 months at 25 C
<b>Safety</b>	Non-toxic & non-flammable
<b>Packing</b>	5 kg & 25 kg bucket

**CONSULT OUR PRODUCT APPLICATION DEPARTMENT (PAD) IN CASE OF ANY DIFFICULTY OR FOR TECHNICAL ASSISTANCE**

SAMROCK products are guaranteed for the performance of material and manufacture.  
The details given here are based on our laboratory and field observations and as such as construed to be reliable. But we shall not accept responsibility for any work carried out with our material as we do not have control over other ingredients, workmanship and field conditions. This data sheet is subject to change in view of constant research and development being undertaken in our laboratories. Customers are advised to contact SAMROCK for the latest version.

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## METHOD OF APPLICATION:

### Surface preparation:

- Clean the surface thoroughly, washing and removing dust, dirt, oil grease and loose laitance.
- In existing old terraces with brickbat coba or screeds, the substrate must be checked for its soundness. Any damaged or hollow portion should be removed till the mother slab and rebuild with brickbat coba in the recommended proportion by mixing SAMBOND R in the base slurry as well as while doing the top coba. In other areas, where the coba is sound, the surface crack must be filled with SAMBOND CF or polymer modified mortar in case cracks are wider than 5.00mm. Cracks of less than 2.0mm should be cleaned free of dust with vacuum cleaner/blower. Apply SAMPRIME LF in the crack and let it dry. Then pour SAMBOND ® TC into these cracks and wait for it to dry.
- Ensure that the roof slope of a minimum of 1 in 100 unit of measure is already provided.
- Bitumen-based waterproofing treatment if exists, must be removed completely by mechanical scarifying or by and other effective mechanical means.

### Application:

- Apply one coat of primer SAMPRIME LF and allow it to dry for 6-8 hours.
- Apply first coat of SAMBOND ® TC at the rate of 1.6 m<sup>2</sup> per kg and allow it to dry before taking up the second and third coats, the rate of application being the same.
- Open woven glass fiber mesh of 2.5mm x 2.5mm must be sandwiched between the first and the second coat in case of larger roof. Place the fiber mesh on the first coat while it is still wet. After the coat dries, start applying the second coat of SAMBOND ® TC. This improves the performance of coating to take care of all movements in the cracks and cold joints in the substrate caused by variations of high and low temperatures.
- Drying time between the coats will be 6-8 hours.
- Allow the system to air cure for 7 days minimum. A total thickness of 1 to 1.2mm must be achieved when SAMBOND ® TC is dry.

### Precautions & limitations:

- All corners, gaps, joints, protrusions and outlets shall be coated with two extra coats.
- Do not apply during rain; 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 SAMBOND ® TC over expansion or moving joints.
- To achieve full-proof waterproofing, parapet wall should be covered with SAMBOND WC.
- NEVER dilute SAMBOND ® TC with water for ease of application.

## TECHNICAL INFORMATION:

Description	Results	Specification
Solid	68-70%	
Hardness (Shore A)	80	ASTM D 2240:2002
Tensile strength (N/mm <sup>2</sup> )	2.6	ASTM D 412:2002
Elongation at break (%)	200%	ASTM D 412:2002
UV resistant - accelerated	Excellent no thermal degradation	
Adhesion strength	0.9	ASTM D 4541: 2002
Water vapour transmission	19g/m <sup>2</sup> /day	ASTM E 96:2002
Accelerated weathering 1000 hours	No chalking or cracking on film	