

## abc Weather Proof S.R.I Coat

**Base materials :** Titanium di oxide and acrylic solution.

**Usages:** As a reflective coat and leak proof in terrace, walls and any other absorbable surfaces. Light shades are possible to make by adding universal stainers. Highly suitable for water proofing and heat reduction in old buildings, resistance to corrosion in nearby sea shore area. Under the pipelines or structural work where tiling work is not possible.

**Key Properties:** 1) Reflects 95% of solar rays.

2) 100% leak proof wherever the coat is applied.

3) Self cleaning property due to reaction with light.

4) Protects from stains and fungus.

5) One of the whitest material on the planet earth.

6) World wide research is going on in Titanium as a building material due to air purification property.

**No of coats:** Two coats of abc weather proof S.R.I compound and one final coat with nano white.

Three/Four coats of S.R.I compound may be required for the worst conditions (site inspection is required).

**Test Certificate:** Accelerated Weathering Test as per IS 101.

**Application Method:** 1) Cleaning the surface (terrace).

2) Pointing the joints with cement mortar 1:3 ratio with the mixture of **water proofing compound..**

3) Application of primer coat with abc Grout.

4) Application of two coats with **Titanium di oxide compound**.

5) Application of one final protective coat with **abc nano white**. (abc nano white is mixture of acrylic and silane - withstands the continuous temperature of 300 deg C, water proof and bonding agent etc).

### **Cost Analysis for the sample:**

**Specifications:** Cleaning the joints of the pressed tile terrace with acid wash and pointing the joints with C:M 1:3 and water proofing compound, applying two coats with Titanium dioxide compound over a primer coat of abc Grout and final protective coat with abc Nano White liquid.

Parameters	**Rate per sq ft
Cleaning the surface with acid	Rs 2/-
Pointing with C M 1:3 with additive	Rs 8/-
Application of one primer coat	Rs 10/-
Application of .Titanium compound (S.R.I)	Rs 9/-
Application of final protective coat (abc nano white)	Rs 3
Supervision, Transport, Conveyence expenses	Rs 3/-
<b>Total</b>	<b>Rs 35 /- per sq ft</b>

Sand and cement should be borne by the customer. \*\*Rates are applicable in Chennai..

### **Content details:**

Cleaning the surface with acid – <b>Contents of acid</b>	HCl, Soap oil.
Pointing with C M 1:3 with additive- <b>contents/additives</b>	abc Nano White
Application of one primer coat <b>contents/ primer</b>	abc Grout + abc Nano White + Water
Application of .Titanium compound (S.R.I) <b>contents/compound</b>	TiO2 + abc Nano White + Water
Application of final protective coat(abc nano white) <b>contents/Nano white</b>	acrylic and silane

# Temperature studies:

Date **1/8/2014**

Day time tempe.: 101 deg F (38 deg C)

Surface Temperatures on terrace:

Time	Clay Tiles	abc Coat	Difference
1.30 pm	60	37	23
3.00 PM	59	37	22
4.00 PM	48	36	12

Difference between uncoated (clay tiles) and coated place is 23 deg C.

As per ECBC norms, the difference could be 10 to 16 deg C between normal and cool roofs.

After few years, temperatre on abc coat might shoot up to few degrees more but still will satisfy ECBC norms of Cool Roof.