

Polyglaze®

PZ RC +

HEAT REFLECTIVE COOL ROOF COATING



PRODUCT DESCRIPTION

Polyglaze PZ RC+ is a water-based acrylic elastomeric, solar heat-reflective cool roof coating. With a high Solar Reflectance Index (SRI), it reduces roof surface temperatures by reflecting solar radiation, resulting in lower indoor temperatures and reduced energy consumption. It also acts as a protective barrier to minimize solar heat penetration there by reducing cooling costs and enhancing building durability.

AREAS OF APPLICATION

- ◆ Roof Surfaces : Compatible with RCC, concrete, metal (GI, tin), tile, glass, asbestos, and bituminous roofing systems
- ◆ Commercial Buildings : Office complexes, shopping centers, malls and hotels
- ◆ Industrial Facilities : Factories, cold storage units, warehouses and production plants
- ◆ Institutional Buildings : Schools, hospitals, airports, and stadiums
- ◆ Residential Structures : Homes, apartments, villas, hostels
- ◆ Transport & Infrastructure : Bridges, bus depots, and railway yards
- ◆ Exterior Elements : Terraces, balconies, water tanks, and walkways

ADVANTAGES

- ◆ Reduces surface temperature by up to 10°C
- ◆ High Solar Reflectance Index (SRI) for better thermal insulation
- ◆ Lowers electricity bills through reduced energy consumption
- ◆ UV - resistant and weatherproof formulation
- ◆ Built-in protection against algae, fungus and microbial growth
- ◆ Quick and easy application
- ◆ Low VOC, water based and eco-friendly system

APPLICATION METHODOLOGY

Surface Preparation

- ◆ The substrate must be sound, rough and free from oil, dirt, debris, paint or other contaminants
- ◆ As a precautionary measure, remove all residues with a vacuum cleaner or pressure washing

- ◆ Ensure that surface & ambient temperature is between 10°C and 40°C

Mixing

- ◆ Add 25 - 30 % of clean potable water by weight to the coating and mix thoroughly to achieve a homogenous consistency

Application

- ◆ PZ RC+ can be applied by using a Roller / Paint brush
- ◆ Ensure standing water is not present on the substrate, as it will impede the coat bonding
- ◆ Apply the first coat either by brushing or rolling and allow to dry for 2 - 3 hours
- ◆ Apply the second coat after the first coat has fully set, in a diagonally opposite / crosswise direction after 3 hours
- ◆ Minimum 2 coats are recommended
- ◆ Recommended Dry Film Thickness (DFT): 150 - 200µ per coat; 3 coats or upto 300µ DFT for metal roofs

Cleaning

- ◆ Clean the tools and equipments with water immediately after use. For dried material, warm soapy water may be required

Curing

- ◆ Allow the coating to cure for at least 24 hours under normal weather conditions
- ◆ Avoid water exposure during the curing period

PACKAGING

- ◆ PZ RC+ is available in 4 Ltr., 10 Ltr. and 20 Ltr. pails

STORAGE & SHELF LIFE

- ◆ Store in a dry place away from moisture and sunlight
- ◆ Best before 15 months from the manufacturing date in original sealed condition

TECHNICAL DATA SHEET

PHYSICAL PROPERTIES

Material Description	Single Component
Physical Appearance	Liquid
Colour	White
Application Temperature	10°C to 40°C
Re Coat Time	3 - 4 hours

PERFORMANCE PROPERTIES

PROPERTIES	STANDARD	PZ RC +
Solids by weight	ASTM D 1353	62 ± 2%
Viscosity @ 25°C	ASTM D 1200	17.5 sec
Density @ 27°C	ASTM D 1475	1.3 ± 0.1 kg/l
Solar Reflectance Index (SRI)	ASTM E 1980	112
Thermal Emittance	ASTM C 1371	0.82
Solar Reflectance	ASTM C 1549	0.89
VOC Content	ASTM C 2369	< 50 g/L
Algae and fungal resistant	ASTM G 21-13	Passes - No Growth
Water Absorption	ASTM D 570	0.18%
Dry Film Thickness	ASTM D 5796	150 - 200 µ / 2 coats

COVERAGE

150 - Microns thickness in 2 Coats	Approx. 30 Sq. Ft / litre
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Note :

- ◆ Above values are under standard test conditions, variations may apply based on actual site or substrate conditions.
- ◆ Recommended thickness is 150 - 200µ DFT - 2 coats (For Metal roofs upto 300µ)
- ◆ The above test results were achieved under Standard Laboratory Conditions at Temp: 27 ± 2° C & Rh: 65 ± 5%.

HEALTH & SAFETY

- ◆ Use a respiratory mask and protective gloves during application.
- ◆ Clean hands with soap and water after application.
- ◆ Avoid contact with skin / eyes. In case of unlikely contact, rinse eyes immediately with plenty of clean water and cleanse skin with soap and lukewarm water. Seek medical advice if irritation occurs / persists.
- ◆ In case of unlikely swallowing, seek medical attention immediately.

Disclaimer:

The information in this TDS is for general guidance only. Specific advice for site conditions is available upon request. Details provided by the company are in good faith, when product is properly stored, handled, and applied under normal conditions. The site conditions, material compatibility, and workmanship are beyond our control, no warranties expressed or implied are given. The company accepts no liability for unsatisfactory results or consequential damages arising from product use.



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