

HIGHKOOL

High Performance, Heat Insulation Coating Based on Modified Co-Polymers



PRODUCT DESCRIPTION

HIGHKOOL is the heat reflective coating based on modified co-polymer chemistry. With its excellent water repellant properties, HIGHKOOL coating acts as an effective waterproofing system for concrete & metal structures. It is designed to provide excellent heat reflective property to reduce to heat absorption in the structure.

ADVANTAGES

- Excellent heat insulation properties
- Water repellant coating
- Anti-corrosion properties
- UV resistant
- Excellent resistance to moisture
- Resistance to scratch and abrasion
- Chemical resistant
- Fire resistant

TECHNICAL DATA

| PHYSICAL PROPERTIES | RESULTS |
|---------------------|--------------------------------|
| Type | Single Pack, Solvent Based |
| SRI Value | 130 |
| Composition | Modified Co-Polymer Technology |

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|---|--|
| Elongation | 200% |
| Application | Brush or roller application |
| Color | White |
| Density | 65+% |
| Drying time | Touch Dry: 15-20 min. Overcoating: 30-45 min. Hard Dry: 24 to 48 Hrs |
| DFT | 35-40 microns |
| Adhesion | Excellent |
| Impact Resistance | Very Good |
| Abrasion Resistance | Very Good |
| Finish | Smooth & Glossy |
| UV Resistance | Excellent |
| Salt Spray Resistance | Excellent |
| Chemical Resistance (10% Acid & Alkali) | Very Good |
| Shelf life (Storage below 30°C) | 6 months |

STORAGE

Sealed containers must be stored at dry, cool and well-ventilated place. Keep away from direct exposure to heat source.

COVERAGE

5-6 SQM/ Ltr/Coat

PACKAGING

Highkool Available in 20 Kg Bucket Packing.

SURFACE PREPARATION

All surfaces should be clean, dry and free from contamination like oil, grease, etc. which is to be removed by solvent cleaning.

For Concrete substrate- Concrete substrate must be fully cured, dry, sound and clean. It shall be free from other contaminants, such as curing compounds, sealers, oil, grease, dust, salts etc. The guideline standards for preparation of concrete are as per SSPC SP 13; cleaning with required tools to free of contaminants, laitance, loosely adhering concrete, dust by mechanical, chemical and or thermal methods. Weak concrete must be removed. All voids, dents are to be repaired.

For Metal substrate- Blast clean to SA 2.5 (Roughness profile 30-35 microns), if not possible prepare the surface using hand tools & power tools to achieve St3 grade standard of surface preparation.

APPLICATION METHOD

- **Application Temperature:** Min 10°C, Max: 40°C
- **Relative Humidity:** Max 90%
- **Surface Temperature:** Min 3°C above the Dew point, Max 45°C
- Do not apply during rain, fog or mist.
- Stir the container well mechanically before use
- **Ventilation** - Good ventilation is required at the time of painting.
- Use good quality of brush & roller for application. Always clean application tools with suitable thinner.
- **Airless Spray:** Tip Pressure- 1500 to 1800 PSI, Tip Size- 0.44 to 0.70 mm
- Drying time may vary as per environmental conditions.

PRECAUTIONS

Take care to avoid skin or eye contact and breathing vapors. In the event of the skin contact immediately wash thoroughly. In the event of eye contact, wash continuously for 15 minutes in water and seek medical advice. Wear protective clothing, gloves, and safety glasses while using this product. If inhalation occurs, move to fresh air and seek medical advice in case of difficulty in breathing. Keep material away from heat, flames, and sources of ignition.

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