

Product Data Sheet

SEA STAR THERMOHYDRAX

HEAT RESISTANT POLYURETHANE COATING WITH SOLAR REFLECTIVE INDEX (SRI) >80

DESCRIPTION

Thermohydrax is a ready to use, single component polyurethane coating for heat and UV resistance with solar reflective index (SRI) > 80. It has superior adhesion to substrates like concrete, screeds, ceramic tiles, and bitumen membranes with high flexibility and strong resistance to all atmospheric conditions. Making it an ideal choice for diverse applications.



Thermohydrax drop the surface temperature about 15°C – 20°C compared with dark coloured covering. It helps drop the indoor air temperature roughly 4°C – 6°C depending on room's ventilation.

RECOMMENDATIONS

- Do not apply Thermohydrax if the temperature is lower than +5°C or higher than +40°C.
- Do not apply if it is about to rain or raining. If it rains between the coats, wait until 12 hours before applying the next coat and make sure the moisture is completely dry.
- Do not apply on wet surfaces or if there is any dew on the substrate.
- Do not apply on the weak or dusty surfaces.

CHARACTERISTICS

- High Solar Reflectance
- Weather Resistance
- High Elasticity
- Low Voc
- Solvent Free
- Excellent Crack Bridging
- For Walkable Areas (Light foot traffic)

WHERE TO USE

- ROOF TOPS
- FOR ALL SUBSTRATES
- CONCRETE & CEMENTITIOUS SCREEDS
- METAL SURFACES

TECHNICAL DATA

Physical Properties	Test Method	Typical Value
Tensile Strength	ASTM D 412	>1.5 N/mm
Elongation	ASTM D 412	>120%
Solar Reflective Index	ASTM C 1549	>80
Adhesion	ASTM D 4541-17	>1.5 Mpa
Crack Bridging	ASTM C 836	Up to 1mm

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PRODUCT PROPERTIES

Consistency	Paste
Colour	Brilliant white
Pot Life	60- 90 minutes
Full cure Time	2 days
Solid Content	70% (+/- 2%)
Application temperature	05 to 40°C

HOW TO USE

- Clean the surface from dirt, oil, moisture, paint and any material which could affect the adhesion.
- Apply primer where needed to provide a smooth and clean surface.
- Cracks larger than 1mm should be filled with crack filler (Sea Star Crack Filler).
- Steel surfaces should be blasted then clean by any solvent.
- Remove any wax or water-repellent treatment if any applied earlier by sanding.
- Mix the content thoroughly prior to application.
- Apply with a brush / roller, minimum two coats in an opposite direction.
- The second coat must be applied after the first coat is touch dry (approx after 2-4 hrs depending upon weather)
- If the substrate has micro cracks insert a reinforcement sheet of fibre mesh between the two layers/ coats.
- The dry thickness of Thermohydrax should not be less than 0.6 -0.8 mm.
- Leave for 24-48 hours for complete curing.

COVERAGE

300 Square feet / 20 kg

PACKAGING

Available in 04kg & 20kg buckets

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extreme temperatures.

The shelf life is up to 24 months in unopened conditions if stored as per the recommendations.

HEALTH AND SAFETY

- All construction chemicals products caution should always be exercised.
- Protective clothing such as gloves and goggles shall be worn.
- Treat any splashes to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.