

Dr. Fixit Heatshield



HEAT INSULATING EXTERIOR WALL AND FACADE COATING

Description

Dr. Fixit Heatshield is a white, light-stable and weatherproof, elastomeric acrylic coating. It is used as a waterproofing and heat insulating coating on roofs and exterior walls resulting in substantial reductions in power consumption, due to its low thermal conductivity and good SRI value.

Dr. Fixit Heatshield contains insulating glass micro-spheres. Within the dry film these form a closely packed airspace with low thermal conductivity leading to reduced heat transfer. This keeps buildings cooler by reducing the conduction of heat from exterior to interior spaces.

Dr. Fixit Heatshield has been tested to ASTM E-903; Standard Test Method for Solar Absorbance, Reflectance, and Transmittance of Materials Using Integrating Spheres.

Typical Applications

- Terraces and roofs - cementitious, asbestos and metal surfaces.
- Exterior structural walls.
- Structural protection in industry.

Features

- Heat Insulating.
- Energy Saving.
- Solar Reflectance - 83.8% solar reflectance (ASTM E-903), re-radiated heat back to atmosphere.
- UV and IR Resistant.
- Resists Microbial Growth
- Non-Toxic
- Water Based.
- White

Packaging

20 litre

Method of Application

1 SURFACE PREPARATION - MINERAL SUBSTRATES

- Substrate must dry, stable and free from dust, loose material, paint, oil or any other contaminants which may impair adhesion.
- All surface cracks should be filled with a suitable Dr. Fixit repair material prior to application of the coating.

2 PRIMING

- All new cement-sand rendering and concrete surfaces should be allowed to cure for 28 days before surface coating.
- Apply Dr. Fixit Primeseal AE (2 part primer : 1 part water) with brush or roller.

3 APPLICATION

- Apply three coats of Dr. Fixit Heatshield by brush or roller at an interval of 2 - 3 hours between coats.

1 SURFACE PREPARATION - METAL SUBSTRATES

- Metal surfaces should be cleaned and abraded to clean bright metal removing existing coatings, rust and any surface contaminants.
- New metal surfaces should be de-greased.

2 PRIMING

- Prime metal substrates with Dr. Fixit Metal Primer.
- Priming is not required for new galvanised Iron sheets.



3 APPLICATION

- Apply three coats of Dr. Fixit Heatshield without any dilution by brush or roller at an interval of 2 - 3 hours.

Note:

- Dr. Fixit Heatshield should never be diluted during application nor should it be overcoated.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Solid Content %	ASTM D 1010	> 60
Sp. Gravity		1.01
Thermal Conductivity		0.029 w/mK
Elongation, %	ASTM D 412	200
Abrasion Resistance	ASTM D 968	No wear after 450 litres of falling sand
Wind Driven Rain Resistance	TTC - 555	No moisture penetration after 24 hours.
Tensile strength at 25°C, N/mm ²	ASTM D 412	0.276
Total Solar Energy Rejected, %		
SRI Value %	ASTM E-903	83.8
Accelerated Weathering (2000 Hrs)	ASTM D 4587	Pass
Relative Heat Gain Btu/hr/sq.ft		30
VOC Content	Maximum allowable 140 g/ltr	< 5 g/ltr

Theoretical Coverage

0.3 sq.mt/ltr/coat (Minimum 3 coat recommended).

Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

Health and Safety

This product is a water based emulsion of non-hazardous polymer. It is non-flammable and essentially non-toxic. Normal industrial hygiene procedures should be adhered to particularly when spraying and it is recommended that gloves and eye protection be worn. In case of skin or eye contact thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation. See MSDS for further information.



DR. FIXIT offers a wide range of Structural Protection and Waterproofing systems:



WATERPROOFING



CONCRETE & STRUCTURAL REPAIR



CRACKFILL & SEALANTS



BONDING AGENTS



SURFACE PLASTERS



GROUTS & ANCHORS



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