Dr. Fixit Roofseal Top Coat



UNIQUE HEAT REFLECTING ROOF WATERPROOFING COATING

Description

Dr. Fixit Roofseal Top Coat is single component, insulating elastomeric waterproof coating for roofs that offer a seal against water and heat. Dr. Fixit Roofseal Top Coat is based on PU - Acrylic hybrid emulsion technology reinforced with nano fibres. It combines the benefits of waterproofing as well as heat reduction in a single product.

Standard Compliance / Specification

Meet the ASTM D6083 - Type II standard specification

Areas of Application

Over existing building Flat/ Slope roof surface like;

- Brick-Bat Coba finish surface
- Cement mortar screed
- China mosaic tile roofs.

Features

- Waterproofing Completely protect surfaces from water penetration
- Crack Bridging Outstanding flexibility with crack bridging up to 2mm
- Tough coating Suitable for light foot traffic
- Reflective roof coating Reduces surface temperature up to 10°C** in the peak summer
- User friendly Single component, Ready to use easy to apply
- Eco friendly Non toxic and VOC complaint water based coating

Packaging

1, 4, 10, 16, 20 litre

Method of Application

1 SURFACE PREPARATION

- All new cement-sand, freshly laid screed / IPS surfaces should be allowed to age at least 12 weeks before application of topcoat surface coating.
- Ensure that the roof slope have a minimum of 1 in 80 or 100 is already provided.
- Surfaces should be clean and sound and free from dust, dirt, oil, grease, and loose particles
- The substrate must be prepared by suitable mechanical preparation techniques such as girding, high pressure water jetting, cleaning etc. and properly pre-wetted to a saturated surface dry (SSD) condition. High-suction substrates require more dampening then dense substrates. However, make sure there is no free-standing water.
- Stagnant water due to undulation in the roof surface should be marked and repaired with PMM.
- Ensure that all penetration points, mechanical equipment, HVAC & solar panels are suitably placed on the up stands and rounded with angle fillet and PU sealant.
- Ensure all roof drains, gutters, rainwater drain pipes; are clean and in working order.
- Cracks at the junctions of roof & vertical parapet wall should be checked and repaired with PMM mixed with Dr. Fixit Pidicrete URP 10 % by weight of cement in the ratio of 1:3.
- Spalled and deeply disintegrated cement mortar screed should be removed to sound screed repaired with PMM mixed with Dr. Fixit Pidicrete URP 10 % by weight of cement in the ratio of 1:3.
- Roofing tiles (ceramic, marble, clay, granite) should be firmly bedded, primed and grouted with Dr. Fixit Primeseal Plus before application of top coat. Mix the 'non- shrink cementitious grout' Dr. Fixit Fevimate TG or white cement with 10-15% (w/w) of Dr. Fixit Primeseal Plus. Add 5-10% clean water to archive a desired consistency/viscosity to fill up the tile joint & crack lines up to 5mm.



- Fill the tile joints with spatula or putty blade. After application flush the surface of tile using a hard rubber float, working diagonally across the grout joints to fill and compact the joints. Rebuff the tile surface and grout within 1-2 hours to remove all weep water and grout residue from the surface.
- Cracks up to 5mm over the china mosaic roof tiles surface must be cut and filled with Dr. Fixit Crack X Paste or with flexible sealant Dr. Fixit PU Sealant

2 CRACKS TREATMENT NON ACTIVE CRACKS ON IPS / SCREED

- Hairline cracks (width up to 0.5 mm) without any active movement need not to be open. Clean the hairline cracks - remove dust, residue, or any contamination.
- Crack's width more than 0.5 mm having any shrinkage crack in screed or construction joint up to 5mm width should be undercut groove up to 5-6 mm with mechanical cutting machine and filled with PMM mortar.
- Screed cracks more than 5mm width should be widen up to 10mm and fill with Dr. Fixit PU sealant.

3 ACTIVE CRACKS ON IPS / SCREED / RCC SLAB WITH DRIP WATER LEAKAGE

- Through and through cracks which are more than 1mm and are visible on the RCC ceiling as well on the screed top also having drip leakages should be treated with PU sealant. Cut open the crack in square or U-groove manner up to minimum 6 mm size using mechanical cutter. Clean the groove with air blower to remove dust, dirt etc. Fill the cracks with Dr. Fixit PU Sealant after necessary cleaning.
- Through and through cracks which are less than 1mm and are visible on the RCC ceiling as well on the screed top also having leakages should be treated with cementitious injection grouting, admixed with expansive admixture Dr. Fixit Pidicrete AM (225gms / bag of cement).

4 APPLICATION PROCEDURE FOR ROOF (REPAIR & NEW)

- Junction of roof with parapet wall (corner rounding), rainwater outlets, marble strip joints, repaired and enlarging cracks surfaces should be coated with an extra coat of Roofseal Top Coat by providing a 45 gsm glass fibre mesh cut to size covering area when the first coat is still wet, for additional protection.
- Apply a coat of Dr. Fixit Roofseal Top Coat (diluted with water in the ratio 2:1) as Self Priming 9 10 Sq.mtr / litre.
- Allow coating to dry for 3-4 hours prior to applying first coat & second coat.
- Apply two coats of Dr. Fixit Roofseal Top Coat @ 2.0 2.2 Sq.mtr / litre / coat, without water dilution, the rate of application being the same for both the coats. This would ensure correct consumption of material that will deliver a total DFT of 450-500 micron.
- Allow the system to air cure for 7 days minimum.
- For vertical surfaces: Apply two coats of Dr. Fixit Roofseal Top Coat with forced coverage of 3.3-3.7 Sq.mt/litre/ Coat.

Post Application

Conduct pond test after 7 days, for 24 hrs, stagnated with water for 50mm height.

Precautions & Limitations

- Do not apply if rain is expected within 48 hours after application.
- Do not apply Dr. Fixit Roofseal Top Coat over expansion or moving joints directly.
- Do not apply if the surface temperature is greater than 35°C or below 10°C, or likely to fall below 10°C during the application or drying period.
- Pidilite Industries does not give any warranty against dirt pick up on Roofseal top Coat.
- Not recommend for roof area more than 300 Sq.mtr.
- Apply Dr. Fixit Primeseal Plus on smooth Nonporous surfaces like Marble, Granite, glazed ceramic tiles & clay tiles, not recommend for application on Kota, & Kadappa stone, Mud phuska roof with brick tiles, Bituminous treatment



Technical Information

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PROPERTIES	TEST METHOD	RESULTS	
Solid Content W/S%	ASTM D1644	57	
Density (gm/cc)	ASTM D 1475	1.31	
% Elongation at Break	ASTM D 412	300	
Tensile Strength N/mm²	ASTM D 412	2.1	
Tear strength N/mm ²	ASTM D 624	24	
Water absorption- 24 hr. dip (Max. 20%)	ASTM D 471	Passess	
Pull off Adhesion N/mm ²	ASTM D 4541	2.0	
Crack Bridging Test (mm)	ASNZ4548-5	2 mm	
PROPERTIES	TEST METHOD	SPECIFICATION AS PER ASTM D 6083 M - TYPE II	RESULTS
Solid Content W/S%	ASTM D 1644	> 50	57
Stormer Viscosity @23°C KU	ASTM D 562	80 -145	112
Density (gm./cc)	ASTM D 1475		1.31
Initial Elongation at Break %	ASTM D 2370	Min. 100	300
Tensile Strength N/mm²	ASTM D 2370	Min 1.4	2 .1
Permeance	ASTM D 1653	Max 50	17
Peal Adhesion to Concrete N/m	ASTM D 903	Min 350	750
Final Elongation after 1000 Hrs. Accelerated weathering %	ASTM D 2370	Min 100	125
Accelerated weathering 1000 Hrs.	ASTM D 4798	No Cracking	No Cracking
Tear resistance K/Nm	ASTMD 624	>21	24
Water swelling %	ASTM D 471	Max 20	1.4
Low temperature flexibility after 1000 Hrs. accelerated weathering	ASTM D 522	Min Pass 13 mm mandrel @ 10°C	Pass
Crack bridging ability mm	EN 1062-7:2004		2 mm
Adhesion to Concrete N/mm²	ASTM D 4541		2.0

The values in the above table are obtained in controlled lab conditions when tested properly by competent laboratory. Note: Tolerance up to 5% on the lower side from the above values are allowable.

ASTM E 1980

Theoretical Coverage*

Solar Reflectance Index

Material: Self Primer coat + 2 Undiluted Coats

Total Coverage: 1.0 - 1.1 Sq.mtr / litre to achieve DFT 450 - 500 microns

for vertical masonry walls: 1.65 - 1.85 Sq.mt / litre/ 2 Coats

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- *Coverage may vary depending upon the texture and porosity of the surface.
- **Comparative thermal performance of Roofseal Top Coat on roofing. Temperature recorded from 1 pm to 3 pm of roof surface recorded with the aid of laser guided infrared non-contact thermometer. The degree of surface temperature reduction will vary depending on the condition of the existing surface, site location, roof pitch and weather factor.

Storage

- Protect the material from freezing.
- Keep containers closed away from heat and flame when not in use; store in a cool & dry place

Shelf Life

• 24 months from the month of manufacture in unopened & proper storage conditions

Health & Safety

- Skin Contact: Wash skin with soap & water. Remove contaminated clothes
- On eye contact: Immediately splash eyes with plenty of water. Consult Physician if irritation persists
- Ingestion: It is based on Water Based Coating system, however, seek medical help

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals















