Dr. Fixit Roofseal Classic New

ACRYLATE WITH PU

Description

Dr. Fixit Roofseal Classic New is a single-component, elastomeric waterproof coating designed for roofs for top coat application. It combines waterproofing and heat insulation in one application, utilizing Acrylate PU hybrid emulsion technology and reinforced with nanofibers for superior performance.

Standard Compliance / Specification

Meets ASTM D6083 - Type II standard specification

Areas of Application

Existing flat or sloped roof surfaces such as:

- Brickbat coba finishes
- Cement mortar screeds
- China mosaic tiles
- Clay Tiles
- Ceramic Tiles.

Features & Benefits

- Protection: Provides exceptional waterproofing and reduces surface temperature by up to 10°C in peak summer.
- Flexible & Crack Bridging: The highly flexible formula bridges crack up to 2 mm, of fering long -lasting protection.
- Durable Coating: Perfect for roofs with light foot traffic.
- Easy Application: Single-component, self -priming, ready-to-use waterproof coating.
- Eco-Friendly Choice: Non-toxic and VOC-compliant water-based coating for a sustainable solution.
- Warranty: 10 years waterproofing.

Method of Application

SURFACE PREPARATION

- Roof substrates must be pressure-washed with water jet having a minimum pressure of 1,400 psi to be used to remove all dirt, dust, chalking and waste products.
- When encountering roof substrates that have living organisms such as algae, mold or fungus, should be clean with 3:1 bleach or bio wash solution shall be used to kill and remove these organisms during the roof cleaning.
- Freshly laid cement sand concrete screed should be designed greater than 80 mm thickness and 50mm at the end slope, using waterproofing additives in concrete screed will reduce the shrinkage potential. The concrete curing takes about 8 weeks to be fully cured before application of Topcoat coating.
- Ensure the roof slope is at least 1 in 80 or 1 in 100, as per the specif ied requirements.
- Thoroughly inspect the terrace roof for cracks, blisters, ponding, exposed foam, and open seams. Evaluate the debonding of screeds or tiles on the terrace roof by tapping with a nylon hammer. Give special attention to areas around roof penetrations, ponding spots, and parapet wall cracks.
- Remove concrete screed, brickbat coba, China mosaic, or ceramic tiles if they are found to be deboned by more than 30% from the roof substrate during a hammer test. Proceed to reach up to the base slab level for fresh waterproof ing as necessary.
- Ensure there is a 1 water drain outlet of a minimum of 100 mm Dia for 500 Sq. ft. surface area and gaps around pipe inserts should be sealed properly with polymer modified mortar.
- Stagnant water caused by undulations in the roof surface should be identif ied and repaired using Polymer -Modif ied Mortar (PMM).
- All joints / corners / rainwater outlets, marble / tile strip joints should be grouted with PMM.
- Ensure that all penetration points, mechanical equipment, HVAC & solar panels are suitably placed on the upstands.

SCREED REPAIR:

- Remove loose and damaged / hollow sound concrete roof screed in pockets with mechanical cutter.
- Clean the concrete screed with water to remove dirt and loose particles.
- Brush applies a bond coat of SBR based polymer & cement mixed in the ratio of 1:1 (SBR polymer 1: Cement 1) by volume to make it lump free slurry coat. Repair the damaged concrete screed surface with Polymer Modified Mortar mixed with SBR based polymer 10**%** by weight of cement in (M20) concrete in ratio of 1:1.5:3 i.e., one bag of 50 kg cements: 1.5 times volume of sand: 3 times volume of aggregates: 25L water.
- Level the repair mortar and finish with trowel by providing proper slope. Moist cures the repaired surface for 7 days. Air cure screed for 4-5 days, before application of roof topcoat coating system.

TREATMENT OF ROOF WITH STAGNANT WATER:

- Make the surface rough by hacking and chipping out the undulations portion. Extend it on the larger area to create slop towards drain.
- Apply a bond coat of Dr. Fixit Pidicrete URP mix in the ratio of 1:1 (URP 1: Cement 1) by volume to make it lump free slurry when applied on in the pre wet surface.
- Prepare the Polymer modified mortar (PMM) mixing with Dr. Fixit Pidicrete URP 10**%** by weight of cement in the ratio of 1:3 when the bond coat is tacky, finishing with trowel. Moist wet curing must be done up to 3-4 days.

SCREED CRACK REPAIR:

- All visible hairline cracks on concrete roof screed > 0.50 mm and not giving hollow sound, should be cut and widen in V shape with mechanical cutter in the size (10mm W x 6mm D) and filling the same with Feviseal HY 100/300 sealant with suitable gun.
- Allow sealant to cure a minimum 72 hours (about 3 days).
- Apply a bandage of Dr. Fixit Roofseal Classic New in 2 coats with 45 GSM glass fiber mesh over and above the crack repair surface.

RAINWATER OUTLETS TREATMENT:

- Hacking and chipping the surface around the rainwater drain outlet mouth up to 25mm in depth.
- Apply a bond coat of SBR-based polymer, Dr. Fixit Pidicrete URP, and cement mixed in a ratio of 1:1. (Polymer 1: Cement 1) by volume over the corners and pipe insert outlet gaps. Filling the gaps around the drain mouth with PMM polymer-modified mortar mixed with Dr. Fixit Pidicrete 10**%** by weight of cement ratio of 1:3. Providing and fixing 100-mm-wide, 45-gsm glass fiber mesh all around the periphery of the drain mouth of a rainwater outlet sandwiched with Dr. Fixit Roofseal Classic New waterproof coating Apply the second coat for an interval of 4-6 hours, all over the rainwater outlet.

VERTICAL UP STAND DETAILING:

- Providing a 100mm x 100mm square or rectangle upstand of M20 grade concrete or with polymer modified-mortar around mechanical equipment like HVAC, air conditioning, solar panels, etc.
- Apply a self-priming coat of Dr. Fixit Roofseal Classic New, dilute with water in the ratio 2:1, and follow by application of 2 coats of Roofseal Classic waterproof coating sandwiched with 45 gsm glass fiber mesh without dilution in the interval of 4–6 hrs. Ensure that all the reinforcement is properly placed or positioned.

WATERPROOFING APPLICATION FOR ROOF SURFACE UP TO 500 M^2 (SELF-PRIMER + 2 COATS WITHOUT WATER DILUTION):

- Stir well before use- Apply one self-priming coat of Dr. Fixit Roofseal Classic New (diluted with water in the ratio 2:1) at the rate of 10.0 to 11.0 sq. m./Ltr. Allow it to dry for 2-3 hours.
- Once dry, apply the first coat of Dr. Fixit Roofseal Classic New at a rate of 0.45 to 0.50 liters/m^2 and allow it to air cure for 4–6 hours.
- Apply the second coat at a 90° angle to the first coat, maintaining the same coverage rate. This system will achieve a total dry film thickness of 450–500 microns with material consumption of 0.90 –1.0 litres/m^2 (including self-primer + 2 coats).

- Ensure that the coating is terminated below the drip mold on vertical surfaces.
- Apply two additional coats at all critical areas such as corners, joints, outlets, and any previously repaired leak zones.
- Allow the entire system to air cure for 7 days to ensure optimal waterproofing performance.

WATERPROOFING APPLICATION FOR ROOF SURFACE UP TO 1000 M^2 (SELF-PRIMER + 3 COATS WITHOUT WATER DILUTION) REINFORCED WITH 45 GSM GLASS FIBER MESH.

- Stir well before use- Apply one self-priming coat of Dr. Fixit Roofseal Classic New (diluted with water in the ratio 2:1) at the rate of 10.0 to 11.0 sq. m./Ltr. Allow it to dry for 2-3 hours.
- Once dry, apply the first coat of Dr. Fixit Roofseal Classic New at a rate of 0.50 liters/m^2 and immediately embed a 45 GSM glass fiber mesh into the wet coating, ensuring proper alignment and a minimum overlap of 50 mm at joints.
- Allow the first coat is dry for 4-6 hours.
- Apply the second coat at the same coverage rate. Once cured, apply a third coat at a 90° angle to the second coat to ensure uniform coverage and reinforcement. This system builds up a dry film thickness of approximately 750–800 microns with material consumption of 1.50–1.60 litres/m^2 (including self-primer + 3 coats).
- Ensure that the coating is terminated below the drip mold on vertical surfaces.
- Apply two additional coats at all critical areas such as corners, joints, outlets, and any previously repaired leak zones.
- Allow the entire system to air cure for 7 days to ensure optimal waterproofing performance.

POST APPLICATION

- let the waterproof coating cure for at least 7 days before you proceed with your flood / pond testing by ponding water up to 50mm height for 24 hrs.

PARAPET WALL WATERPROOF COATING:

- Apply one undiluted coat of Dr. Fixit Raincoat Waterproof Coating (Basecoat) at 4.2-4.7 sq m/liter/coat for a 100–120-micron film. Follow with one coat of Dr. Fixit Raincoat Classic/Select Topcoat (color optional) after 6-8 hours, undiluted at 6.0-6.5 sq m/liter/coat.

OR

- For vertical Parapet or masonry plaster walls apply two coats of Dr. Fixit Roofseal Classic New at 1.65–1.85 sq. m./liter/ 2 coats without dilution. Follow with one coat of Dr. Fixit Raincoat Classic/Select Topcoat (color optional) after 6-8 hours, undiluted at 6.0-6.5 sq m/liter/coat.

DRYING/ CURING TIME AT 30 °C / 85% RH

Touch Dry	60 min.
Hard Dry	4 to 6 hours

Precautions & Limitations

- Do not apply if rain is expected within 24 hours after the application.
- Do not apply Dr. Fixit Roofseal Classic New over expansion or moving joints directly.
- Do not apply during rain, fog, mist or when ambient temperature falls below 10°C or if the temperature might drop to this level within 4 hrs of application. Similarly, in case of extremely hot conditions where the surface temperature is more than 36°C, do not apply the product. Cool down the surface temperature by watering the area and then apply.
- Pidilite Industries does not give any warranty against dirt pick-up on the Dr. Fixit Roofseal Classic New.
- Not recommended for roof areas larger than 1000 Sq.mt.
- There is a reduction in gloss, sheen, and age, which is part of the weathering process.
- Dr. Fixit Roofseal Classic New is recommended over existing building Flat/ Slope roof surface like Brick-Bat Coba finish, Screed China mosaic Clay tile roof. Apply Dr. Fixit Primer AC for application on non-porous surfaces like Marble, Granite, glazed ceramic tiles. Not recommend for application on Kota, & kadappa stone tiles and mud phuska roof, and over mangalore tile roof surface.

Technical Information

PROPERTIES	UNIT	TEST RESULTS	METHOD
Appearance	Visual	White Liquid	
pH		8.56	
Density	g/cc	1.33	ASTM D 1475-2013
Solid Content	%	57 - 60	ASTM D 1644-2001
Volatile Organic Compound (VOC)	%	2.16	ASTM D 3960-2005
Recoating Time	Hrs.	4-6	ASTM D 1640-2014
Surface Drying Time	Minutes	60	ASTM D 1640-2014
Tensile Strength	N/mm^2	2..5 – 3.0	ASTM D 2370-2016
Tensile Strength with 45 Gsm fibre mesh	N/mm^2	8-10	ASTM D 2370-2016
Elongation at Break	%	150-200	ASTM D 2370-2016
Final Elongation at Break afer 1000 accelerated weathering 1000 Hrs	%	PASS	ASTM D 2370-2016
Tear Resistance	N/mm^2	18	ASTM D 624-2000
Crack Bridging Ability	mm	2	EN 1062-7-2004(A)
Permeance	perms	29	ASTM E 96 -2022
Water Absorption-24 Hrs.	%	pass	ASTM D 471-2016
Low Temp. flexibility after 1000 Hrs. accelerated weathering	Visual	pass	ASTM D 522-2017
Shore A Hardness		74	ASTM D 2240-2015
Pull of Adhesion to concrete	N/mm^2	1.94	ASTM D 7234-2022
Pull of f Adhesion to Mosaic Tile	N/mm^2	1.82	ASTM D 7234-2022
Peel adhesion to concrete	N/mm^2	54.72	ASTM C 794-2018
Peel adhesion to Mosaic Tile	N/mm^2	49.62	ASTM C 794-2018
Abrasion resistance (CS 17 Wheel - 1000 Cycle, 1.0 Kg)	mg	22	ASTM D 4060-2019
Depth of Water Permeability 7 Bar	mm	nil	EN 12390-8:2019
Fungi resistance	Rating	awaited	ASTM G21-2015

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.

Theoretical Coverage*

Roof Surface up to 500 m^2

0.90 -1.0 litres/m^2 (including self-primer + 2 undiluted coats).

Roof Surface up to 1000 m^2

1.50-1.60 litres/m^2 (including self-primer + 3 undiluted coats).

for vertical masonry walls: 1.65-1.85 sq. m./liter (including self-primer + 1 undiluted coats)

*Coverage may vary depending on the texture and porosity of the surface.
**Comparative thermal performance of Dr. Fixit Roofseal Classic New on roofing temperature recorded from 1 pm to 3 pm of roof surface recorded with the aid of a laser-guided infrared non-contact thermometer. The degree of surface Temperature reduction will vary depending on the various factors, including heat gain during extreme heat by external walls and windows and surrounding environmental factors.

Packaging

1, 4, 10, 16, 20 litre

Shelf Life & Storage

- Shelf life is 36 months from the date of manufacturing in unopened conditions. To be stored in original and unopened packaging in a cool and dry place away from direct sunlight.
- Recommend temperatures of (10°– 30°Celsius) for storage of Dr. Fixit Roofseal Classic New and anything below 10 °Celsius and above 30°Celsius is certainly not recommended.

Health & Safety Precautions

- 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

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