

# Dr. Fixit Roofseal Select



## HIGH PERFORMANCE WATERPROOF COATING FOR ROOF

### Description

**Dr. Fixit Roofseal Select** is a heavy duty terrace waterproof coating system, composed of specially developed highly elastic & resilient acrylic polymers, properly selected & graded fillers, lightfast & weather durable pigments, micro-fibres, additives & best quality fungicidal in water medium. It is used as a liquid applied waterproofing membrane for all types of building terraces. Dr. Fixit Roofseal Select is a three-layer system with coats in different colours ensuring proper build-up of the thickness, making it a reliable waterproofing system. The coating performance can be enhanced by providing a fibre mesh that is embedded or sandwiched between the coats.

### Areas of Application

Over existing building Flat / Slope roof surface like; Brick-Bat Coba finish, PCC, cement mortar / screed, Broken China mosaic tiles roof.

### Features & Benefits

- Film thickness - Provides higher dry film thickness of 1 mm in three coat application
- Crack bridging - Bridges cracks up to 2 mm width
- Application advantage - No need to remove existing sound brickbat coba, plaster, concrete surface
- Suitability - Can be used for flat as well as sloping roofs
- Strength - Higher tensile strength, tear resistance & bond strength with cementitious substrates
- Resilience - Forms highly elastic & resilient coating so helps to withstand the structural movements
- Durability - Resistant to UV & weather conditions
- Abrasion resistant - No additional protective coating is required for roof subjected to foot traffic
- Ease of application - Can be applied by brush & roller easily
- Weight addition - Light in weight does not add extra weight over the roof
- Toxicity - It is non-toxic in nature
- Breathability - It is breathable
- Easy to recoat existing surfaces coated earlier with Dr. Fixit Roofseal Select.

### Method of Application

#### 1 SURFACE PREPARATION

- Prepare the surface thoroughly by cleaning, washing and removing dust, dirt, oil, grease and loose particles.
- In existing old terraces with brickbat coba or screeds, the substrate must be checked for its soundness. Damaged or hollow portions, sharp edges, etc. must be cut and removed till the mother slab. The slab should be recoated with slurry of Dr. Fixit Pidicrete URP and cement in 1:1 proportion. After drying, the brick bat coba in that portion should be reinstated by mixing Dr. Fixit Pidicrete URP in the base slurry as well as while doing the top coba.
- All hairline cracks more than 0.50mm and not giving hollow sound, on the IPS/screed or at the junctions of flat roof & vertical parapet wall, pipe joints, should be checked with nylon/ rubber hemmer. Cut and widen cracks with mechanical cutter up to 10mm in width.
- Ensure that the roof slope of a minimum of 1 in 100, is already provided.
- Bitumen based waterproofing treatments if existing, must be completely removed by mechanical scarification or by any other effective mechanical means.

#### 2 CRACKS TREATMENT CRACKS ON IPS / SCREED - CRACK'S

- All hairline cracks more than 0.50mm and not giving hollow sound, on the IPS/screed or at the junctions of flat roof & vertical parapet wall, pipe joints, should be checked with nylon/ rubber hemmer.
- Cut and widen cracks with mechanical cutter up to 10mm in width.



- Clean cracks, of dust, residue or other contamination. Prime locally with the Dr. Fixit Pidiprime A with brush and allow to cure tack free. Fill all prepared cracks with Dr. Fixit PU Sealant. Allow the sealant to air cure for 72Hrs

### 3 APPLICATION

- Dilute 2 parts of Dr. Fixit Primeseal with 1 one part of water. This dilution will cover 7 to 8 sq.mt. Allow it to dry for 6 to 8 hrs..
- Apply 1st coat of Dr. Fixit Roofseal Select at the rate of 2 sq. mt. per litre (Make grid lines of 1 mtr by 1 mtr on the surface with chalk for measuring application coat of 2 sq. mt.)
- An open woven glass fibre mesh of 2.5 mm x 2.5 mm must be sandwiched between the first and second coat. While the 1st coat is still wet, place the fibre mesh on it.
- Dr. Fixit Roofseal Select to be applied with brush or roller in one direction only. Check to see no void surface is left untreated / uncoated. Allow the first coat to dry for 6-8 hours.
- Apply second coat of Dr. Fixit Roofseal Select with the same application coverage. Application direction of second coat should be perpendicular to that of the first coat. Check to see no void surface is left uncoated with second coat. Allow second coat to dry for 6-8 hours.
- Apply third coat of Dr. Fixit Roofseal Select at an application direction that is perpendicular to that of the second coat with same application coverage rate. Check to see no void surface is left untreated / uncoated. All coats should be applied in direction perpendicular to each other.
- The sequence of colours of Dr. Fixit Roofseal Select can be decided depending on the desired top coat colour.
- In case only two colours are being used, ensure that the colour of the first and the third coat are the same. This would ensure correct consumption of material that will deliver a total DFT of 1 mm.
- Drying time between coats will be 6 to 8 hrs.
- Allow the system to air cure for 7 days minimum. A total thickness of 1 mm must be achieved when Dr. Fixit Roofseal Select is dry.
- 7 days after application of Dr. Fixit Roofseal Select, it should be checked for its adhesion to the substrate. For this, mark a square of 5 cm x 5 cm, for every 200 sq. m of the area.
- Cut the square with a knife diagonally across the square. Rip the coating and check the coating's thickness with vernier callipers, to see if the dry film has an average thickness of 1 mm. Once these tests are done, reapply Dr. Fixit Roofseal Select over these portions, in accordance with the regular procedure

### 4 MAINTENANCE & RECOATING OF DR. FIXIT ROOFSEAL SELECT

- Over a period of time or some years, if Dr. Fixit Roofseal Select has developed cracks on exposure to weathering or extreme temperature variations, it is extremely easy to recoat over it again, with only one coat of application of Dr. Fixit Roofseal Select. Cracks if any, can be treated by placing a fibre mesh over a recoat, while it is still wet. After this dries, it would need an additional coat over the mesh to strengthen the area. In rest of the area where there are no cracks or damage on the surface, you can just go in for only one coat of Dr. Fixit Roofseal Select, after properly sanding the surface

### 5 POST APPLICATION

- Conduct ponding test by filling water up to 50 mm height for 48 hours post air curing to ensure leak-free terrace.

#### Precautions & Limitations

- All corners, gaps, joints, Roof leak repair area & outlets shall be coated with two extra coats.
- Do not apply during rains; substrate MUST be in SSD condition for application of primer.
- The product is designed only for foot traffic and not vehicular or movement of machinery or equipment.
- Do not apply Dr. Fixit Roofseal Select over expansion or moving joints.
- To achieve the full proof waterproofing, parapet walls should be covered with Dr. Fixit Raincoat.



- Never dilute Dr. Fixit Roofseal Select with water for ease of application.
- Dr. Fixit Roofseal Select is not recommended for application on Non porous surfaces like Marble, Granite, Kota, Kadapa Stone, Full glazed ceramic tiles & clay tiles.
- 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.
- Keep the material in close when not in use.

**Technical Information**

PROPERTIES	STANDARD SPECIFICATION	RESULTS
Solid Content, %		Min 65 %
Hardness (Shore A)	ASTM D 2240: 2002	80
Tensile Strength, N/mm <sup>2</sup>	ASTM D 412 : 2002	1.2
Elongation at Break, %	ASTM D 412 : 2002	Min 100 %
UV Resistant - Accelerated Weathering (1000 hours)	ASTM G 154 : 2000	Excellent: No thermal degradation, No cracking, chalking and discoloration
Adhesion Strength, N/mm <sup>2</sup>	ASTM D 4541 : 2002	1.0
Water Vapour Transmission	ASTM E 96 : 2000	15-50 g/m <sup>2</sup> /day
Algae & Fungus Resistant	(SS 345 : 1998)	No algae & fungus Growth
Crack Bridging	EN1062-7	a) No cracks up to 2 mm width b) No cracks up to 1 mm (10 cycles)
Rapid chloride permeability	ASTM C 1202 - 97	Very low
Water permeability (5 bar pressure)	BS EN 12390, part 8 :2000	Pass

**\*Theoretical Coverage**

2 m<sup>2</sup> per litre per coat

**Packing**

4 & 20 litres

**Shelf Life**

- 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 Select 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: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.
- Protection: Use personal protective equipment's like, gloves, goggles for eye protection and face mask.

### Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



Pidilite Industries Limited  
Construction Chemicals Division  
Ramkrishna Mandir Road, Post Box No. 17411  
Andheri (E) Mumbai 400059 INDIA  
Tel +91-22-2835 7000 • Fax +91-22-2835 7008  
www.drfixit.co.in • info.drfixit@pidilite.com

Dr. Fixit Advice Centre (Toll Free No.) 1800 209 5504

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