

Dr. Fixit Newcoat



HEAVY DUTY REINFORCED ACRYLIC WATERPROOF COATING FOR TERRACE

Description

Dr. Fixit Newcoat 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 Newcoat 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 for large roofs, by providing a fibre mesh that is embedded or sandwiched between the coats.

Areas of Application

- Building roofs / Terraces- Flat & sloping.
- Over existing cementitious waterproofing treatments like brickbat coba, concrete screeds, acrylic coatings, etc.

Features & Benefits

- Film thickness - Provides higher dry film thickness of 1 to 1.25 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 Newcoat

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. In other areas, where the coba is sound, the surface cracks must be filled with Dr. Fixit. Crack-X or polymer-modified mortar in case cracks are wider than 5 mm.
- Cracks less than 2 mm, should be cleaned free of dust with a vacuum cleaner. Apply Dr. Fixit Primeseal in the crack and let it dry. Then pour Dr. Fixit Newcoat into these cracks and wait for it to dry.
- 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 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 the first coat of Dr. Fixit Newcoat without any dilution at the rate of 2 m² per litre and allow it to dry before taking up the second and third coats, the rate of application being the same.
- In larger roofs, 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. After the coat dries, start applying the 2nd coat of Dr. Fixit Newcoat. This improves the performance of the coating dramatically, to take care of all movements in cracks and cold joints in the substrate caused by variations of high and low temperatures. This reinforcement with fibre mesh shall be extended up to the drip mould over the angle fillets.
- The sequence of colours of Dr. Fixit Newcoat 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 to 1.2 mm must be achieved when Dr. Fixit Newcoat is dry.
- 7 days after application of Dr. Fixit Newcoat, 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. This should be done in every 200 m². over the entire roof. Once these tests are done, reapply Newcoat over these portions, in accordance with the regular procedure.

3 MAINTENANCE & RECOATING OF DR. FIXIT NEWCOAT

- Over a period of time or some years, if Dr. Fixit Newcoat 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 Newcoat. 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 Newcoat, after properly sanding the surface.

4 POST APPLICATION CHECKLIST

- Conduct ponding test by filling water up to 50 mm height for 48 hours to ensure leak-free terrace.
- Testing of the coating thickness can be carried out in an area of 1 metre X 1 metre area of the roof, to check the thickness. In this area mark at least 5 squares of 5 cm X 5 cm. With a knife, each square must be cut diagonally and rip it. The dry film thickness of the membrane shall be checked with a Vernier Calliper, which should measure 1 mm.

Precautions & Limitations

- All corners, gaps, joints, protrusions & 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 Newcoat over expansion or moving joints
- To achieve the full proof waterproofing, parapet walls should be covered with Dr. Fixit Raincoat
- Never dilute Dr. Fixit Newcoat with water for ease of application

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Solid Content, %		69
Hardness (Shore A)	ASTM D 2240: 2002	80
Tensile Strength, N/mm ²	ASTM D 412 : 2002	2.6
Elongation at Break, %	ASTM D 412 : 2002	200
UV Resistant - Accelerated Weathering (1000 hours)	ASTM G 154 : 2000	Excellent: No thermal degradation, No cracking, chalking and discoloration
Adhesion Strength, N/mm ²	ASTM D 4541 : 2002	0.9
Water Vapour Transmission	ASTM E 96 : 2000	19 g/m ² /day
Algae & Fungus Resistant	(SS 345 : 1998)	No algae & fungus Growth
Crack Bridging	ASTM C 836: 1995	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 (Depth of penetration at 5 bar pressure)	BS EN 12390, part 8 :2000	6

Coverage 2 m² per litre per coat

Packing 4 & 20 litre

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing in unopened condition. Store in a cool & dry place.

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.

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
 website www.doctor-fixit.com • E-mail drfixit@pidilite.com
 E-mail drfixitadvice@pilmail.com
 Dr. Fixit Advice Centre (Toll Free No.) 1800-209-5504

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.