

Dr. Fixit Roofseal Flex



HEAVY DUTY CEMENTITIOUS WATERPROOF COATING FOR NEW TERRACE

Description

Dr. Fixit Roofseal Flex is a two component cementitious coating, composed of high quality cement, properly selected & graded fillers, additives and acrylic polymer. It is suitable for achieving waterproofing for roofs, because it provides strong bonding, good waterproofing and excellent resistant to hydrostatic water pressure by forming highly elastic seamless coating over the applied concrete surfaces.

Areas of Application

Waterproofing of flat concrete roofs

Features & Benefits

- **Water proofing** - Tough film buildup provides excellent waterproofing.
- **Elasticity** - Highly elastic film formation which accommodates thermal movements.
- **High film built-up** - withstand 5 m hydrostatic pressure without any leakages.
- **Bonding** - Excellent adhesion to concrete and masonry substrates hence longer life.
- **Seamless coating** - Forms seamless coating without any joints, prevents water leakage.
- **Non-toxic** - LOW VOC.
- **Ease of application** - Easily applied by brush.

Method of Application

1 SURFACE PREPARATION

- Surface should be sound, clean and free from dirt, oil and other loose material.
- Concrete surfaces should be fully cured (minimum 28 days) prior to application.
- All surface cracks, undulations and voids must be repaired appropriately before application.
- Surface must be in SSD condition prior to application

2 MIXING

- Use slow speed mechanical mixer, add powder component slowly to the polymer in a clean container.
- Stir till smooth and homogeneous slurry, without any lumps, is achieved.
- Allow the mixed slurry to stand for 5-10 minutes for releasing entrapped air during mixing..

3 APPLICATION

- Do not dilute with water
- Apply Dr. Fixit Roofseal Flex slurry by brush within the pot life of 40-45 mins
- Allow the 1st coat to dry completely for 6-8 hrs before applying 2nd coat.
- Apply 2nd coat in perpendicular direction to the 1st coat
- Cure the coating using moist hessian cloths for 7 days
- Carry out pond test post curing of final coat and prior to covering the coating with a screed.

4 WATER PONDING TEST

- After full curing of second coat for at least 7 days, a water ponding test can be performed by filling water on the terrace by carefully blocking all the down take drain outlets without damaging the coating. The test shall be carried out for 48 hrs by filling water up to 50 mm level. Observe for leakages if any and then remove the water and allow the coating to dry completely.



5 PROTECTION

- Coating overlay with brickbat coba, china mosaic or mud phaska:
- After the coating is dried lay sand and cement mortar (Plaster) prepared with Dr. Fixit Pidiproof LW+ covering the complete exposed flat area including up stand areas for the protection of applied coating.
- Upon completion of the plaster and proper curing/drying, further finishing activities such as mud phaska, brickbat coba china mosaic & tile fixing can be carried out with proper slope towards the drain water outlet.

OR

Protection concrete screed:

- Spread 100 gsm/m² geotextile over cured Dr. Fixit Roofseal Flex as separation layer, before a concrete screed is laid. Protect the coating with a concrete screed in M 20 grade. The protective screed of 40-50 mm (minimum) thickness maintaining an average slope of 1:100 towards the drain outlets for effective and efficient draining of water.
- The composition of screed should be 1:1.5:3 i.e. Cement: Sand: Aggregate with aggregate size 20 mm down. The screed should also have poly propylene fibre 12 mm length & should not be less than 150 gram per 50 kg bag of cement.
- Sprinkle the fibre in site mixer with little water. Keep rotating and add aggregate, sand, cement and balance water. Mix it for a few minutes. In case of manual mixing, for best results mix half the fibre in a bucket of water, stir well and mix in concrete. Likewise add balance fibre.
- The addition of fibre will contribute in controlling cracking caused by volume change (Expansion & Contraction). Helps in increasing flexural strength.
- Angle fillet to be provided while screed application using polymer modified mortar.
- After the application of screed, provide control joints along the length and breadth of entire screed area.
- The joint can be provided by using a saw cutting machine attached with a 3 mm blade within 18-24 hrs of application of screed. The panel size for providing joints should be 3.25 m x 3.25 m.
- 28-30 days later, these joints can be filled with a suitable elastomeric sealant.

Precautions & Limitations

- Do not part mix. Mix the entire quantity of both the components at one go.
- Do not dilute.
- Always add powder to liquid to avoid lump formation.
- Do not cure by flooding with water.
- Cure the membrane with moist hessian cloths
- Do not conduct any ponding test before it is completely cured for 7 days
- Always protect the membrane with screed in areas exposed to foot and other traffic.
- Concrete surfaces must be cured for 28 days before application.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Mix ratio (liquid : powder), by wt		1 : 1.5
Surface dry time, minutes	ASTM D 1640	2 hrs
pH		7 - 11
Mixed Density		1.60 gm/cc
Cure time after 2 nd coat, days		7 days
Tensile strength, N/mm ²	ASTM D 412	0.4 Mpa minimum
Elongation at break, %		100 minimum
Adhesion strength, N/mm ²	ASTM D 4541	0.8 - 1
Crack bridging ability		upto 2 mm

Coverage*

Approximately 0.65 - 0.7 m² in 2 coats at 1 mm DFT

*Coverage may vary depending upon the nature and texture of the substrate

Packing

12.5 kg (7.5 kg powder + 5 kg polymer)

Shelf Life

- Shelf life is 24 months from the date of manufacturing in unopened condition.
- Store in cool dry place away from direct heat and sunlight.

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.

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