Dr. Fixit Wonderproof 100

PRIMER LESS, PU HYBRID WATERPROOF COATING

Description

Dr. Fixit Wonderproof 100 is a two-component, fast-curing PU Hybrid liquid-applied waterproofing system. It is designed for use as both an underlay and topcoat in combination with chopped glass fiber strand mat, making it ideal for large roof areas and podiums in new construction as well as renovation projects. The system provides excellent adhesion to a wide range of substrates and performs reliably even in conditions with high residual moisture condition.

Typical Application

Roof Renovation application

- Concrete Screed, Brick Bat Coba finish, China mosaic tile roof surface, mosaic tile roof, Ceramic tiled roof.
- Complex detailing, up-stands, penetrations, and terminations.
- Protective Topcoat for 1K& 2K Polyurethane, Polyurea membranes.
- GI/Metallic Corrugated sheet roofing.
- Composite deck waterproofing.
- TPO Membrane [aged].

Undercoat application:

- As a waterproofing protection for SPF (Foamshield, spray polyurethane foam system).
- New Construction RCC roofs and podium deck waterproofing & Planter Boxes (Protected with Screed).
- Composite deck waterproofing..

Features

- Tolerates residual moisture; suitable for application on damp (not wet) surfaces without affecting adhesion.
- Unique 2- component polymer system with strong adhesion to multiple surfaces.
- Allows 25% faster down time as for further overcoats, as no primer is needed.
- Resists rainfall wash-off after 60–120 minutes, depending on temperature.
- High Tensile, tear Strength and Excellent dynamic crack bridging ability
- Very low VOC contents & order less for safe and healthy environment.
- UV-resistant with excellent adhesion to most building materials.
- 10 Years' Waterproofing Warranty

Methods of Application

1.SURFACE PREPARATION: CLEANING THE SURFACE:

New Construction under coat:

- Ensure new concrete has cured for atleast 28 days to achieve proper drying.
- Remove all loose particles, dirt, oil, grease, algae, moss, and sharp edges using a mechanical wire wheel brush or handheld grinder to eliminates the laitance layer and achieves a Concrete Surface Profile (CSP) of 2 or 3. Follow with a high-pressure water jet wash to remove dust and contaminants, ensuring the substrate is clean and properly prepared.

Roof Renovation:

- Remove all dirt, loose particles, algae, moss, previous paint, coatings, and sharp edges using a mechanical wire wheel brush or handheld grinder to achieve a Concrete Surface Profile (CSP) of 2. Follow with a high-pressure water jet wash to eliminate dust and contaminants. Ensure the substrate is in a "Saturated Surface Dry" (SSD) condition—damp but free of standing water—prior to applying the waterproof coating.
- Ensure proper slope before application. As per BS 6229, maintain a minimum finished fall of 1:80, depending on rainfall. Provide rainwater outlets (100–150 mm diameter): Minimum 1 outlet for areas <100 m^2, Minimum 2 outlets for areas >100 m^2.

CRACK REPAIRS

- Inspect the Concrete screed/ RCC slab for defects. Cracks more the 1mm in width without hollow sound, should be cut and widen into a V-shape (8 mm wide × 6 mm deep) fill with Feviseal HY100/300 Hybrid Sealant using a suitable gun. Allow the sealant to air cure for minimum 72 hours.

ANGLE FILLETS (VATA/COVING)

In new construction, provide 50 mm × 50 mm angle fillets at all vertical upstands, junctions, and corners using cement-sand polymer-modified mortar (PMM) mixed with Dr. Fixit Pidicrete URP (10% by weight of cement).

LOCALIZED PATCH REPAIR:

- Identify Damaged Areas In roof renovation, gently tap the surface with a nylon hammer to detect hollow or delaminated areas. Mark the damaged zones using chalk or a marker.
- Remove Loose material with a mechanical cutter to remove all loose or hollow-sounding sections of concrete screed or tiles.
- Apply Bond Coat Prepare a bond coat by mixing Dr. Fixit Pidicrete URP and cement in a 1:1 volume ratio. Apply the bond coat over the exposed concrete using a brush.
- Prepare and Apply Polymer Modified Mortar (PMM) and Mix Dr. Fixit Pidicrete URP (10% by weight of cement) with an M20 concrete mix in a 1:1.5:3 ratio (cement: sand: coarse aggregate) or use Dr. Fixit Polymer Modified mortar HB. Apply and level the repaired areas with a smooth trowel finish, ensuring proper slope for drainage.
- Keep the repaired surface moist for 7 days using regular water spraying or wet burlap. Allow the surface to air cure for an additional 4–5 days before applying Dr. Fixit Wonderproof 100 rooftop waterproof coating

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2. MIXING:

- Using a slow-speed, double-paddle mechanical mixer, mix Component B with Component A and stir for 2–3 minutes until a smooth, homogeneous mix is achieved.
- Allow the mixed material to stand for 2 minutes before use.
- Do not dilute with water.
- Note: Use Dr. Fixit Wonderproof material as required and securely cap the pail if not in use.

3. TOP COAT WATERPROOF COATING APPLICATION

- Apply the first coat of Dr. Fixit Wonderproof 100 at 0.80 to 0.90 kg/m² without dilution using a lamb's wool roller. Embed 225 gsm chopped strand fiberglass mat into the wet coat and allow it to dry for 3–4 hours. Once walkable, apply the second coat at 0.80 kg/m² at a 90° angle to the first coat, overlapping the mat by at least 5 cm.
- Extend the waterproofing coating from the horizontal slab up the vertical upstands/parapet walls to a minimum height of 300 mm above the finished floor level (FFL). Terminate the coating under flashing or coping.
- Apply the waterproof coating around all pipe inserts and vertical upstands, ensuring complete coverage and proper sealing. At door thresholds or openings, continue the coating up to the sill level. Apply two liberal coats of Dr. Fixit Wonderproof 100 over the surrounding area, allowing the first coat to air cure for 3–4 hours before applying the second coat.
- Apply additional coats as required to achieve a total DFT up to 1000 microns with a system consumption of minimum 1.60 kg/m² in 2–3 coats.
- Allow the system to air cure for 7 days. Conduct a 50 mm water ponding test for 24–48 hours.

4. TOPCOAT APPLICATION – 1K PU, 2K POLYUREA WATERPROOF COATING:

- Apply Dr. Fixit Wonderproof 100 waterproof coating within 72 hours of substrate curing, ensuring the surface is clean and dry and free from dirt.
- Apply the first coat of Dr. Fixit Wonderproof 100 at 0.80 to 0.90 kg/m² without dilution using a lamb's wool roller, embed 225 gsm chopped strand fiberglass mat into the wet coat and allow to dry for 3–4 hours.

- Extend the Waterproofing Coating from the horizontal slab up the vertical upstands/parapet walls to a minimum height of 300 mm above the finished floor level (FFL). At door thresholds or openings, continue the coating up to the sill level or as per architectural detailing.
- Once walkable, apply the second coat at 0.80 kg/m² at a 90° angle to the first, overlapping the mat by at least 5 cm.
- Apply additional coats as required to achieve a total DFT up to 1000 microns with a system consumption of minimum 1.60 kg/m² in 2–3 coats.
- Allow the system to air cure for 7 days. Conduct a 50 mm water ponding test for 24–48 hours

5. NEW CONSTRUCTION – PODIUM, ROOF, AND COMPOSITE METAL DECK WATERPROOFING

Surface preparation

- Ensure surface preparation is carried out thoroughly as per Point No. 1 of the Technical Data Sheet (TDS).

Waterproof Coating Application

- Apply the first coat of Dr. Fixit Wonderproof 100 at 0.80 to 0.90 kg/m² without dilution using a lamb's wool roller. Embed 225 gsm chopped strand fiberglass mat into the wet coat and allow it to dry for 3–4 hours. Once walkable, apply the second coat at 0.90 kg/m² at a 90° angle to the first coat, overlapping the mat by at least 5 cm.
- Extend the waterproofing coating from the horizontal slab up the vertical upstands/parapet walls to a minimum height of 300 mm above the finished floor level (FFL). Terminate the coating under flashing or drip mould.
- Apply the waterproof coating around all pipe inserts and vertical upstands, ensuring complete coverage and proper sealing. At door thresholds or openings, continue the coating up to the sill level or as per architectural detailing. Apply two liberal coats of Dr. Fixit Wonderproof 100 over the surrounding area, allowing the first coat to air cure for 3–4 hours before applying the second coat.
- Apply additional coats as required to achieve a total DFT up to 1000–1200 microns with a system consumption of minimum 1.80 kg/m² in 2–3 coats.
- Allow the system to air cure for 7 days. Conduct a 50 mm water ponding test for 24–48 hours.

Protection for Horizontal Surfaces

- Lay 100 gsm geotextile over the cured membrane as a separation layer.
- Apply a 75–100 mm thick minimum M20 concrete screed with Recron fibers (6–12 mm @ 125 g/bag of cement), maintaining a 1:100 slope.
- Construct 50 × 50 mm angle fillets at junctions using cement-sand mortar with 10 Dr. Fixit Pidicrete URP (by cement weight). Saw-cut joints at 2.5 × 2.5 m intervals and seal with Feviseal HY 100/300. Cure the screed for 15 days.

6. SPRAY-APPLIED POLYURETHANE FOAM WATERPROOFING – GREEN ROOF LEC APPLICATION

Surface preparation

- Ensure surface preparation is carried out thoroughly as per Point No. 1 of the Technical Data Sheet (TDS).

Waterproof Coating Application

- Ensure waterproof Coating application is carried out thoroughly as per Point No. 5 of the Technical Data Sheet (TDS). Spray-Applied Polyurethane Foam
- Refer to the Technical Data Sheet (TDS) of Dr. Fixit Foamshield for detailed application guidelines.
- Spray-apply Dr. Fixit Foamshield to a thickness of 80–85 mm (as per ECSBC guidelines for achieving a U-factor of 0.26 W/m²K for the roof assembly). Application should comply with IS 12423-Part 3. Each spray pass must be a minimum of 12 mm thick, and the foam must have a spray density in the range of 45–50 kg/m³.
- Protect the spray-applied foam from UV exposure within 24 hours by applying Dr. Fixit Wonderproof 100 waterproof coating.
- Apply two coats of Dr. Fixit Wonderproof 100 at 0.50–0.60 kg/m² per coat over the foam and around the drain trench, with a 3–4-hour interval between coats. Apply the second coat diagonally to the first to achieve a total coverage of 1.0–1.2 kg/m² in 2 coats. Allow 5 days of air curing.
- Extend the waterproofing coating from the horizontal slab up the vertical upstands/parapet walls to a minimum height of 300 mm above the finished floor level (FFL). Terminate the coating under flashing or drip mould.

- Apply the waterproof coating around all pipe inserts and vertical upstands, ensuring complete coverage and proper sealing. At door thresholds or openings, continue the coating up to the sill level. Allow the coating to air cure for 7 days.
- After curing, lay a 100-gsm geotextile over the membrane and apply a 75 mm M20 concrete screed with Recron fibers (125 g per bag of cement), maintaining a 1:100 slope.
- Construct 50 × 50 mm angle fillets at junctions using cement-sand mortar with 10% Dr. Fixit Pidicrete URP (by cement weight). Saw-cut joints at 2.5 × 2.5 m intervals and seal with Feviseal HY 100/300. Cure the screed for 15 days.

7. APPLICABLE FOR GI (GALVANIZED) AND METAL CORRUGATED SHEETS

- Remove all bitumen-based patching, loose flaking paint, and old flashing materials using a mechanical wire brush or electrical grinder.
- Clean thoroughly to remove rust, dirt, old sealants, and silicone caulks; treat stubborn rust with Dr. Fixit Rust Remover.
- Replace rusted panels, damaged fasteners, flashings, or capping with new components.
- Apply Feviseal HY 100/300 Hybrid Sealant over washers and fixtures; allow to cure for 72 hours.
- Coat lap joints, seams, and flashings with Dr. Fixit Wonderproof 100, embedding 50 gsm polyester fabric between two coats; ensure edges are sealed without fish mouths.
- Apply two coats of Dr. Fixit Wonderproof 100 at 0.50–0.60 kg/m² per coat over the entire sheet area including drain trenches.
- Maintain a 3–4-hour interval between coats; apply the second coat diagonally to the first to achieve 1.0–1.2 kg/ m² total consumption and 500 microns DFT.
- Allow full air curing for 7 days.

8. DRY WALL BATHROOM WATERPROOFING

- Concrete surfaces must be cleaned thoroughly using mechanical grinding and water jetting to remove dust, laitance, oil, or contaminants. Substrate profile of CSP 2–3 is preferred for optimum adhesion.
- Honeycombed areas are repaired with Dr. Fixit Pidigrout 10M or polymer-modified mortar (PMM) using Dr. Fixit Pidicrete URP. Cracks wider than 1 mm are cut into a V-shape, bonded with URP-cement slurry, and filled with PMM.
- At wall-to-floor junctions, apply bonding coat of Dr. Fixit Pidicrete URP in the ration of 1:1 (1 part URP:1 part water) form 25 to 50 mm thick fillet with polymer modified mortar (PMM), cured for 3–5 days, followed by application of one liberal coats of Dr. Fixit Wonderproof 100 on SSD condition with embedded 225 gsm chopped strand mat coverage at the rate 0.90 kg/m² each and overlapping chopped strand joints ≥10 cm.
- Bore packing around core cuts and PVC pipes is sealed with Dr. Fixit Pidigrout 10M, then reinforced with Wonderproof 100 and 225 gsm chopped strand fiberglass mat.
- Lay polymer-modified screed (cement: sand: aggregate in 1:3 mix with URP at 10 of cement weight) to minimum 35 to 50 mm thickness, providing slope of 1:80 towards drains. Wet cure surface for 5 -7 days.
- Seal wall-to-wall and wall-to-floor vertical, horizontal panel joints of waterproof cement fiber board with HY 300 Hybrid Sealant. After air curing for 3 days, apply 2–3 coats of Wonderproof 100 on vertical walls (total 1.80 kg/m²), embedding 225 gsm fiberglass mat across full height for seamless protection.
- For waterproofing of horizontal surfaces apply first coat of Dr. Fixit Wonderproof 100 at 0.80 to 0.90 kg/m² without dilution using a roller. Embed 225 gsm chopped strand fiberglass mat into the wet coat and allow it to dry for 3–4 hours. Once walkable, apply the second coat at 0.80 kg/m² to 0.90 kg/m² at a 90° angle to the first coat, overlapping the mat by at least 5 cm.
- Apply additional coats as required to achieve a total DFT up to 1000 microns with a system consumption of minimum 1.60 -1.80kg/m² in 2–3 coats. Allow the system to air cure for 5 days. Conduct a 50 mm water ponding test for 24–48 hours.
- After air curing of coating, clean the vertical and horizontal coated surface and fix tiles using Roff Vitrofix, a highly polymer-modified adhesive compliant with IS 15477:2019 Type 2T and EN 12004:2017 C2TE. This adhesive is specially designed for vitrified tiles, ceramics, and natural stones.

- Grout tile joints >2 mm with Roff Starlike epoxy-based filler (Base + Hardener), mixed thoroughly and applied as per methodology, ensuring durable, stain-resistant joints.

9. PARAPET WALL WATERPROOF COATING APPLICATION

- Apply one coat of Dr. Fixit Raincoat Waterproof Coating (Basecoat) without dilution at 4.20–4.70 sq. m/litre/coat to achieve a DFT of 100–120 microns.
- For fresh plaster surfaces, dilute the basecoat in a 2:1 water ratio and apply at 8–10 sq. m/litre/coat.
- After 4–6 hours, apply one coat of Dr. Fixit Raincoat Select or Raincoat Classic Topcoat without dilution at 6.0–6.4 sq. m/litre/coat to achieve a system DFT of 170–200 microns.

Precautions & Limitations:

- Do not apply Dr. Fixit Wonderproof 100 in extremely wet conditions or if rain is expected immediately after application.
- In areas prone to water stagnation, apply 3 thick coats locally and ensure proper slope for drainage.
- Extend waterproofing over upstands and continue onto horizontal sections.
- Do not apply over expansion or moving joints.
- Avoid application if surface temperature is above 36°C or below 10°C, or expected to drop below 10°C during curing.
- No warranty is provided against dirt pickup; gloss/sheen reduction over time is part of natural weathering.
- Not recommended for Mudphuska roof, Kadappa stone, or bituminous roofs.

APPLICATION INFORMATION TABLE:

Parameter	+10°C	+20°C	+30°C
*Drying Time (RH 50%)	120 minutes	90 minutes	60 minutes
**Dry to Recoat (RH 50%)	4 hours	3 hours	3 hours
**Rain exposure safe after curing for	120 minutes	120 minutes	120 minutes

Additional Application Details

*The above times for drying, recoating and early rain resistance refer to layer application of avg. consumption 0.900 kg/m^2.

** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them.

Tools for Application: Brush / Roller: Premium quality sizes 75 MM & 100 MM brush & Use "3/8"–3/4" a microfiber or thread paint roller.

Tools Clean up: Brushes & Rollers can be cleaned up with water while they are still wet or immediately after application.

Technical Information

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Solids by Weight %	ASTM D 1644	55-60
Dynamic crack-bridging	EN 13251:2016	Indicative 25-year service life (retained strength 77, retained elongation 54) after ISO 13438 ageing.
Dynamic Crack Bridging	(EN 1062-11): Class: B 4.2:	Pass - No Crack or pinhole observed in the coating after 20000 sinusoidal cycles -10'C.
Shore A	ASTM D2240	85
Pull off Adhesion on concrete N/mm^2	ASTM D 7234	1.7

Pull off Adhesion on tile N/mm^2	ASTM D 7234	1.2
Pull off Adhesion on Metal N/mm^2	ASTM D 7234	2.5
Pull off Adhesion on PU foam N/mm^2	ASTM D 7234	1.45
Peel Adhesion on Ceramic Tile - N	ASTM D 903	22.4
Peel Adhesion to Concrete under wet Condition -24 Hrs. – N	ASTM C 794	11.4
Abrasion resistance (CS 17 Wheel -1000 Cycle, 1.0 Kg)	ASTM D 4060	≥ 7 mg loss
Alkali Resistance	SS 5 Part G2	Pass, No appreciable colour difference after the test
Depth of Water Permeability @ 15 Bar	EN 12390-8-2019	NIL
Fungi resistance	ASTM G 21	Zero rating
Adhesion with C1TE, C2TE	EN 14891	Pass
Volatile Organic Compounds (VOC) c/L	31.6	IS 101 : Part2: Sec 3 : 2015
Resistance to root	CEN TS/14416	Pass
Fire Resistance	EN 13501-1,Class A	Pass
Solar Reflectance Index (SRI) – White	ASTM E1980	90
Dry Film Thickness µ	EN 1062 - 1	900-1100 microns

A 225gsm Fiberglass Chopped Strand Mat was used in combination with Dr. Fixit Wonderproof 100 on below properties.
Tensile Strength according to ASTM D 2370 is ≥ 15 N/mm^2; Tear Strength as per ASTM D 624 is ≥ 100 N/mm;

Disclaimer

The typical physical properties provided above are based on results obtained from laboratory testing conducted under controlled conditions. However, field-applied samples may exhibit variations due to factors beyond our control, such as application temperatures, weather conditions, film thickness, testing and curing environments, and the age of the samples tested. A tolerance of up to 5% below the stated values is considered acceptable.

Theoretical Coverage*

Roof Renovation application material consumption - 1.60 Kg/m^2/2-3 coats.
Undercoat application material consumption - 1.80 Kg/m2/2-3 coats.

Packaging:

19 Kg. Kit (Part A: 18.00 Kg. Pail, Part B: 1 Kg pouch).

Shelf Life & Storage

- Shelf life is 18 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight.

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/solvent free Coating system, however, seek medical help

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals.

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