

Dr.Fixit Newcoat PU Roof Garden

Root Resistance Waterproofing Membrane



Description

Dr. Fixit Newcoat PU Roof Garden is a liquid applied Bitumen and polyurethane elastomeric waterproofing membrane specially developed for use in roof gardens. Its root resistive property prevents the plant roots from tearing the waterproof membrane as they grow and flourish in the roof garden.

Dr. Fixit Newcoat PU Roof Garden is a liquid applied waterproofing membrane that is easy to apply, allowing for fast, effortless and seamless application even in garden designs that are irregular and unique.

Areas of Application

- All Types Of Roof, Balcony, Deck
- Retaining Wall, Basement

Rate of Uses

* Theoretical consumption without allowance for loss.

Rate of uses				
	Kg/m ²			m ² /pail (20 kg)
	Standard	At Least	At Most	
1 Coat	0.70	0.68	0.72	28
2 Coats	0.70	0.68	0.72	28
3 Coats	0.70	0.68	0.72	28
Total 3 Coats	2.09	2.04	2.14	9

Thickness

Thickness (micron)			
	Standard	At Least	At Most
1 Coat	333	316	350
2 Coats	333	316	350
3 Coats	333	316	350
Total 3 Coats	1,000	950	1,050

Method of Application

1. Surface Preparation

1.1 Old & Fresh Concrete Surface

- Allow fresh concrete to cure 28 days.
- Concrete surface must clean, strong, free of all loose dirty materials, and dust free, oil stain, wax, liquid coating/paint, concrete curing agent, grease or other stains that would affect waterproof coating adhesion.
- Concrete surface where there laitance, algae, mound, remove them with grinding machine and clean surface afterwards.

- Prepare cement surface or mineral mix cement surface by cleaning by using grinding machine or chipping machine to remove all defect surfaces such as peel off surface, weak concrete, cavities, etc. Do not use water to clean surface to prevent accumulation of moisture. Use grinding machine or chipping machine to smoothen surface and remove all loose dirty materials, sweep off or use blower to blow off dirt or vacuum cleaner to suck in dirt.

Surface Levelling

- Surface must be smooth, for laitance remove laitance surface by saw concrete or scrubbing down with wire brush.
- Adjust slope 1:100 on roof terrace application to allow water to drain.
- All substrate area must be smooth and any defects concrete surface can be apply by use structure repair cementitious mortar **Dr.Fixit UniRepair FC** to fill in damage area, afterwards allow repair area to cure for 7 days prior to other work.

Repair Cracks & Plug Holes

- For concrete surface with, weak concrete, peel off surface, hollow sound check from knock at concrete condition remove by grinding machine or chipping machine till reaching strong concrete.
- For concrete surface with pinhole or honeycomb can be apply by using structural repair cementitious mortar **Dr.Fixit UniRepair FC** to fill in defects area, afterwards allow repair area to cure for 7 days prior to other work.
- For concrete surface with >3mm crack, groove U shape on crack area to big enough for apply **Dr. Fixit MS 25 Sealant** to seal crack and allow to cure a day prior to working on area.
- For concrete surface with hairline crack apply **Dr.Fixit Newcoat PU Roof Garden** over hairline crack.

Fillet on joints wall and floor

- For concrete wall and floor should be made fillet/chamfer with **Dr. Fixit MS 25 Sealant**. Allow sealant to cure for a day prior to other work.
- Any corners or angles should be cut.

2. Priming

- Stir **Dr.Fixit Newcoat PU Roof Garden** until homogenous for primer application of coverage of 0.70 kg / m² and leave to dry 1-2 hours prior to next application.

3. Mixing

- **Dr.Fixit Newcoat PU Roof Garden** is premix product; stir content till a homogenous paste is form prior to applying. Can apply with mixing machine at low speed mix with 2 minutes. Do not add more water when mixing.

4. Applications

- After primer cure.
- Paint/spray of **Dr.Fixit Newcoat Roof Garden** at rate of uses 2.09 kg/m² (dry film thickness 1,000 micron)

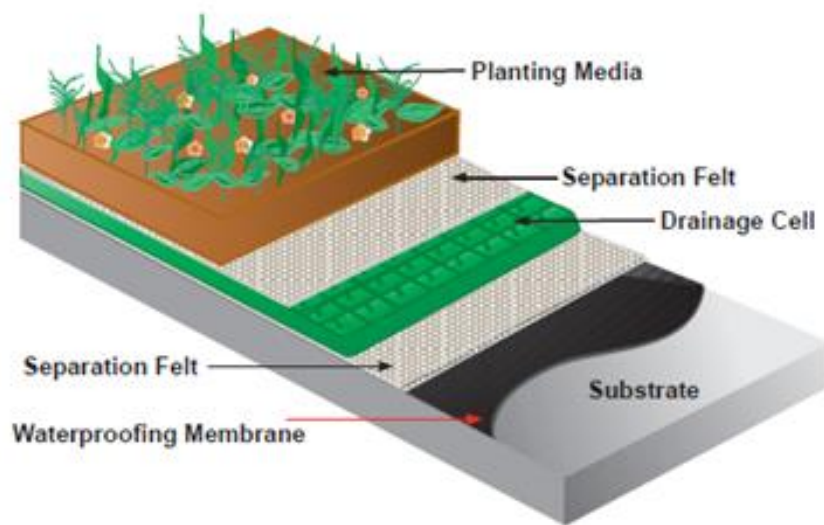
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- Allow 1st coat to dry 1 to 2 hours prior to applying 2nd coat perpendicularly, do not add more water in mixture when applying.
- When applying floor to wall joint apply **Dr.Fixit Newcoat Roof Garden** at least 30 cm height above floor level.
- Recommend spray **Dr.Fixit Newcoat Roof Garden** with Dr.Fixit Dutymax Airless Sprayer.
- Leave for dry within 24–48 hours before install **Newcoat PU Roof Garden system** or backfill.

Newcoat PU Roof Garden System



5. Cleaning

- Clean all tool and equipment with water immediately after use.

6. Curing and Protection

- Appreciable properties develop within 24–48 hours at 30°C and 50% relative humidity. Protect **Dr.Fixit Newcoat Roof Garden** from traffic during curing.
- Install geotextile, drainage, or backfill as soon as possible following cure of **Dr.Fixit Newcoat Roof Garden** (within 24–48 hours).

Precautions & Limitations

- Apply **Dr.Fixit Newcoat Roof Garden** when substrate is dry and ambient temperatures are 10 to 35°C.
- Check humidity and dew point. Apply **Dr.Fixit Newcoat Roof Garden** when surface temperature is at least 5 °C above dew point to prevent droplets of water forming on the surface.
- Do not leave **Dr.Fixit Newcoat Roof Garden** without top coating & do not leave **Dr.Fixit Newcoat Roof Garden** to be contact with direct sunlight without protection board install to protect surface more than 7 days.
- **Dr.Fixit Newcoat Roof Garden** surface cannot be open to traffic prior to apply top coat.

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Technical Datasheet

Properties	Standard/Test Method	Results
1.Appearance	-	Liquid
2.Solid Content by weight	-	64 + 2%
3.Solid Volume		55%
4.Viscosity	Brookfield,(CPs)	10,000-20,000 CPs
5.Density @25°C	ASTM D-70-03	1.10-1.20 Kg/L
6.Drying Time (25°C)	-	1 hour
7.Tensile Strength	ASTM D-412	1.42 N/mm ²
8.Elongation	ASTM D-412	1300%
9.Hardness Shore A	ASTM D-2240	64
10.Water Vapor Transmission Rate	ASTM E-96-00	~24.8g/m ² /day
11.Modulus 100% Elongation	ASTM D-412	1.01N /m ²
12.Recovery 200% Elongation	ASTM D-412	138.7%
13.Tear Strength	ASTM D-624	15.83 N
14.Root Resistance	DIN 4062 / FLL (2008)	Pass

Packaging

- Pail 20Kg

Storage

- 6 Months Maximum in Shaded Sealed Container, does not exceed 30°C

Health & Safety Precaution

- Non-flammable.
- Avoid skin and eye contact in case of contact rinse with water.
- Wear protective clothing, gloves and goggles when working.

Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



Pidilite Bamco Limited (A group company of Pidilite Industries Ltd.)
699 Modernform Tower 15,17 FL.,Srinakarin Rd.,Pattanakarn, Suan Luang, Bangkok 10250, THAILAND.
T. +662 722-8535 F. +662 722-8381
Website: www.dr-fixit.co.th
E-mail: sales@pidilitebamco.com
Helpline Call +662 722 8535 #101