

Dr. Fixit Newcoat PU Cool

Heat Reflective Waterproof Polyurethane Elastomer

Description

Dr.Fixit Newcoat PU Cool is a high concentrated water-based polyurethane elastomer. Apply in high strength application. When dry forms a rubberlike properties, features high flexibility, reduce shrinkage, weather resistance, solar reflectance, easy to use, quick drying, does not need fiber reinforcement, seamless, seals joint, prevent water penetrating surface by 100%.

Areas of Application

- Roof Tile, Terrace, Exterior Wall, Gutter

Rate of uses

* **Theoretical consumption without allowance for loss.**

Rate of uses				
	Kg/m ²			m ² /pail (25 kg)
	Standard	At Least	At most	
1 Coat	0.87	0.85	0.88	28
2 Coats	0.87	0.85	0.88	28
3 Coats	0.87	0.85	0.88	28
Total 3 Coats	2.60	2.55	2.65	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.

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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 Cool** 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

Concrete surface prime with **Dr.Fixit Denzi Block**, leave coat to dry completely 1-2 hours before apply second coat and allow the coating to cure for 24 hours.

3. Mixing

- **Dr.Fixit Newcoat PU Cool** 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.
- Strengthen **Dr.Fixit Newcoat PU Cool** with **Dr.Fixit Roofkote Fibernet** or **Dr.Fixit Roofkote Polymat system**.

4. Applications

4.1 Waterproof & Solar Reflectance Foundation Applications

- After primer cure
- Paint/spray 1st coat of **Dr.Fixit Newcoat PU Cool** at 2.60 kg/sqm (dry film thickness 1,000 micron)
- 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 PU Cool** at least 30 cm height above floor level

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- Recommend spray **Dr.Fixit Newcoat PU Cool** with Dr.Fixit Dutymax Airless Sprayer
- Strength **Dr.Fixit Newcoat PU Cool** with Dr.Fixit Roofkote Fibernet หรือ Dr.Fixit Roofkote Polymat system.

4. Cleaning

- Clean all tool and equipment with water immediately after use

5. Curing

- For the good quality, **Dr.Fixit Newcoat PU Cool** should be cured 7 days.

Precautions & Limitations

- Working temperature 10°C to 35°C
- Do not apply on surface with negative water pressure, wet surfaces of water retaining structures such as swimming pool & pond
- Do not work in direct sun or on hot surfaces to prevent cavities formation

Technical Information

Properties	Standard/Test Method	Results
Appearance	-	Liquid
Solid Content by weight	-	65-70%
Solid Volume	-	50%
Viscosity @ 25 °C	Brookfield	18,000-20,000 CPs
Specific Gravity	ASTM D-70-03	1.35-1.45 g/ml
pH	-	7.2
Adhesion -Concrete -Wood -Metal	ASTM D-4541	2.0 Newton/mm ² 2.8 Newton/mm ² 1.7 Newton/mm ²
Water Absorption	(SS-133-87)	<8.0 %
Tensile Strength	ASTM D-412	>5.49 Newton/mm ²
Elongation	ASTM D-412	>800 %
Ease of Cleaning	-	Excellent
Mandrel Bend Test	ASTM D-522	No Break, No Change
* Water Vapour Transmission Rate	ASTM E-96-00	65.9 g/m ² /day

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Solar Reflectance	JIS R3106	93.6 %
Thermal Emittance	JIS R3106	0.90
Solar Reflectance Index	ASTM E-1980-01	112.3
Solar Absorptance	JIS R3106	6.4 %
VOCs	TISI2271-2549 (ISO17895 : 2005)	0.00 mg/kg
Hardness Shore A	ASTM D-2240	90
Abrasion Resistance of Coat	-	>15,000 Turns
Vibration durability test against earthquake	JIS C 60068-2-59	No water leak after all test.
Intensity level of earthquake	JIS C 60068-2-59	Upper 6

Package

- Drum 25Kg , Gallon 5 kg
- Color: White, Light Grey and Light Green

Storage

- 6 Month Maximum in Shaded Sealed Container and does not exceed 30 °C

Health & Safety Precautions

- Non-flammable
- Avoid skin and eye contact, in case of contact, rinse with clean 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.

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