

Dr. Fixit Newcoat

UV-RESISTANT & HEAT REFLECTING ACRYLIC CO-POLYMER,
W/h MICRO FIBER REINFORCEMENT WATERPROOFING COATING

Description:

Dr. Fixit Newcoat is a water based waterproofing membrane containing an integral synthetic micro reinforcement, specifically designed to eliminate blistering and wrinkling which may occur in exposed or ponded situation. It is easy to use. Dr. Fixit Newcoat is highly durable waterproofing coating having excellent resistance to UV, algae, mildew, alkaline and efflorescence properties. It can cover crack approximately 2 mm. And air can flow through. It is non-toxic and environment-friendly.

Area of Application

Suitable for use waterproofing the roof and repairing the metal sheet

Rate of uses

* Theoretical consumption without allowance for loss.

Rate of uses							
	Kg/m ²			m ² /gallon (1 kg)	m ² /gallon (5 kg)	m ² /pails (20 kg)	m ² /pails (25 kg)
	Standard	At least	At most				
1 coat	0.94	0.92	0.95	1	5	21	26
2 coats	0.94	0.92	0.95	1	5	21	26
3 coats	0.94	0.92	0.95	1	5	21	26
Total 3 coats	2.80	2.75	2.85	0.36	1	7	8

Thickness

Thickness			
	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

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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.
- Surface crack larger than 2-5 mm. must be repair before applying **Dr. Fixit Newcoat**.
- If the substrate temperature is high then cool it down by using water hose and allow the substrate to attain a saturated surface dry condition.

Repair Cracks & Plug Hole

- 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** 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 moisture level must not exceed 5%. if exceeded or it is high porous surface recommend use **Dr.Fixit Denzi Block** and leave coat to dry completely 1-2 hours.

3. Mixing

- **Dr.Fixit Newcoat** 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** at 2.80 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

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- When applying floor to wall joint apply **Dr.Fixit Newcoat** at least 30 cm height above floor level
- Recommend spray **Dr.Fixit Newcoat** with **Dr.Fixit Dutymax Airless Sprayer**

5. Cleaning

- All equipment should be clean with water after application

Precautions & Limitations

- **Dr.Fixit Newcoat** working temperature 10 to 35°C
- **Dr.Fixit Newcoat** should not be apply area that regular is immerse in water such as water tank and swimming pool

Technical Information

Properties	Specification / Standard	Test result
1.Solid content	TGA Analyzer	61%
2.Solid by Volume		50%
3.Polymer Content	TGA/DTA Analyzer	35%
4.Specific Gravity	-	1.3 kg/lit
5.Adhesion to concrete Substrate	ASTM D 4541	0.9 N/mm.2
6.Elongation at Break	ASTM D 412	109.3 %
7.Tensile Strength	ASTM D 412	4.3 MPa.
8.Hardness (Shore A)	ASTM D2240	68.2 (Shore A)
9.Crack Bridging 2 mm. width 1 mm. width after 10 cycles	BTD/TP/03:2004	Passed Passed
10.Accelerated Weathering	ASTM G154 (2000 hrs.)	Passed, No Cracks
11.Water absorption for 24 hrs. Change in mass on one surface	ASTM D417	0.1 kg/m ²
12.Bond Strength by slant shear at 7days	ASTM C882	0.8 MPa.
13.Tack free time (30 ° C)	-	30 - 45 minute
14.Time between application	-	4 hrs. (depend on site condition)
15.(Solar Reflectance)	JIS R3106	75.8%
16.(Solar Absorptance)	JIS R3106	24.2%
17.(Thermal Emittance)	JIS R3106	0.86
18.VOCs Contents	ISO 11890-2:2013	<0.0110

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Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry, hrs.	2	1	0,45	0,30
Dry to over coat, minimum, hrs.	4	2	1,30	1
Dried/cured for service, hrs.	8	6	5	4

Drying and curing times are determined under controlled temperatures and relative humidity below 60%, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

Packaging

- 1, 5, 20, 25 kg Pail (4 colours; white, light grey, green & light green)

Storage

- 12 month storage in sealed container and room temperature.

Health & Safety Precautions

- Non Flammable.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection when applied.

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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