

# Dr. Fixit Hydrolastic RF

## Elastic Acrylic Copolymer Waterproofing Membrane

### Description

**Dr. Fixit Hydrolastic RF** is a high solids and polymer content, single component, acrylic elastomeric copolymer waterproof coating for roofs, dries to form an elastomeric membrane >600%  
**Dr. Fixit Hydrolastic RF** is highly durable waterproofing coating having excellent resistance to UV, alkaline and efflorescence properties. It is breathable that allows trapped water vapour to escape from the roof. The roof or terrace is cooler and the heat transfer into the building is less so energy saving.

### Area of Application

- Old or new roofs
- Roof terrace

### Rate of uses

\* Theoretical consumption without allowance for loss.

| Rate of uses         |                   |             |             |                                  |                                  |                                  |
|----------------------|-------------------|-------------|-------------|----------------------------------|----------------------------------|----------------------------------|
|                      | Kg/m <sup>2</sup> |             |             | m <sup>2</sup> /gallon<br>(5 kg) | m <sup>2</sup> /pails<br>(20 kg) | m <sup>2</sup> /pails<br>(25 kg) |
|                      | Standard          | At least    | At most     |                                  |                                  |                                  |
| 1 coat               | 0.78              | 0.80        | 0.76        | 6                                | 25                               | 32                               |
| 2 coats              | 0.78              | 0.80        | 0.76        | 6                                | 25                               | 32                               |
| 3 coats              | 0.78              | 0.80        | 0.76        | 6                                | 25                               | 32                               |
| <b>Total 3 coats</b> | <b>2.33</b>       | <b>2.38</b> | <b>2.28</b> | <b>2</b>                         | <b>8</b>                         | <b>10</b>                        |

### Thickness

| Thickness            |              |            |              |
|----------------------|--------------|------------|--------------|
|                      | Standard     | At least   | At most      |
| 1 coat               | 333          | 316        | 350          |
| 2 coats              | 333          | 316        | 350          |
| 3 coats              | 333          | 316        | 350          |
| <b>Total 3 coats</b> | <b>1,000</b> | <b>950</b> | <b>1,050</b> |

### 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, mould, remove them with grinding machine and clean surface afterwards.

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- 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.
- Surface crack larger than 2-5 mm. must be repair before applying **Dr. Fixit Hydrolastic RF**

### 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 with 0.5 – 1 mm. apply **Dr.Fixit Hydrolastic RF** over hairline crack

### Fillet on joints wall and floor

- For concrete wall and floor should be made fillet/chamfer with Dr.Fixit PU Sealant. Allow sealant to cure for a day prior to other work.
- Any corners or angles should be cut.
- Floor drain area or drainage cell should be seal joints in between drain and surface with **Dr. Fixit MS 25 Sealant**

## 2. Priming

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

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### 3. Mixing

- **Dr.Fixit Hydrolastic RF** 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. Application

- After primer cure
- Paint/spray of **Dr.Fixit Hydrolastic RF** at 2.33 kg/sqm (dry film thickness 1,000)
- Allow 1<sup>st</sup> coat to dry 1 to 2 hours prior to applying 2<sup>nd</sup> coat perpendicularly, do not add more water in mixture when applying
- When applying floor to wall joint apply **Dr.Fixit Hydrolastic RF** at least 30 cm height above floor level
- Recommend spray **Dr.Fixit Hydrolastic RF** with Dr.Fixit Dutymax Airless Sprayer
- Strengthen **Dr.Fixit Hydrolastic RF** with Dr.Fixit Roofkote Fibrenet or Dr.Fixit Roofkote Polymat system.

### 5. Cleaning

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

### 6. Curing and Protection

- Allow **Dr.Fixit Hydrolastic RF** to cure 7 days after applying application steps above prior to opening to traffic

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### Technical Information

| Properties                                | Standard/Test Method | Results                         |
|-------------------------------------------|----------------------|---------------------------------|
| 1.Solid Content % by weight               | W-TP-021             | 60                              |
| 2.Color                                   | -                    | White, Green, Dark Grey, Grey   |
| 3.Viscosity Brookfield Viscosity @ 25 °C  | W-TP-001             | 20,000-40,000 Cps.              |
| 4.Density                                 | W-TP-022             | 1.30                            |
| 5.pH                                      | W-TP-009             | 7.5 - 10.0                      |
| 6.Drying time                             | -                    | 1 hours at 25 °C                |
| 7.Chemical Resistance                     | -                    | Alcohol, Weak Acid              |
| 8.Tensile strength                        | ASTM D412            |                                 |
| - Unreinforced                            | -                    | 1.1 N/mm <sup>2</sup>           |
| - Reinforced with Dr.Fixit Roofkote       | -                    | 11.0 N/mm <sup>2</sup>          |
| 9.Elongation at break                     | ASTM D412            |                                 |
| - Unreinforced                            | -                    | >600%                           |
| - Reinforced with Dr.Fixit Roofkote       | -                    | >90%                            |
| 10.Hardness, Shore A                      | ASTM D2240           |                                 |
| - Unreinforced                            | -                    | 42.1                            |
| - Reinforced with Dr.Fixit Roofkote       | -                    | 54.5                            |
| 11.Water absorption for 24 hrs.           | ASTM D471            | 0.07 kg/m <sup>2</sup>          |
| 12.Bond strength by slant shear at 7 days | ASTM C882            | 1.0 MPa                         |
| 13.QUV Test                               | ASTM G154-06         | 3000 hrs. Paint film is normal, |
| 14.VOCs Contents                          | ISO 11890-2:2013     | <0.0110 g/ml                    |
| 15. Solar Reflectance                     | JIS R3106            | 85.1                            |
| 16. Solar Absorptance                     | JIS R3106            | 14.9                            |
| 17. Thermal Emittance                     | ASTM C1371           | 0.83                            |

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### Precautions & Limitations

- Dr.Fixit **Hydrolastic RF** working temperature 10 to 35°C
- Dr.Fixit **Hydrolastic RF** in Thailand to apply prior to 10am or during evenings
- Dr.Fixit **Hydrolastic RF** should not be apply on area of negative water pressure such as area where water seep through from concrete foundation
- Dr.Fixit **Hydrolastic RF** should not be apply area that regular is immerse in water such as water tank and swimming pool

### Packaging

- 5, 20, 25 kg Pail (3 colors; white, light grey, 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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