

Dr. Fixit Rainkote No.3

A General Purpose Waterproofing Bitumen Emulsion

Description

Dr. Fixit Rainkote No.3 is viscous dark brown smooth cream water borne bitumen emulsion, containing bitumen chemical, mineral filler. It is suitable consistency for application in relative thick films by brush or mop and bond firmly to either dry or damp surfaces.

Dr. Fixit Rainkote No.3 is used for waterproofing when damp or leakage is problems. It is applied by brush with reinforcement polyester to provide a water and damp proofing membrane without jointing/over lapping because the polyester could achieve complete continuity and integrating all over the roof

Standard

- ASTM D 1227-87 Type III (Standard Specification) for Emulsified Asphalt used as a water protective coating)

Area of application

- Waterproofing for roof, wall, gutter (concrete, metal, tile, wood, plastic etc.)
- Corrosion protection for concrete from sea water.
- Apply on metal or galvanized roof for sound deadening.
- Rot prevention for wood, timber.

Rate of uses.

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

Rate of uses							
	Kg/m ²			m ² /gallon (1 kg)	m ² /gallon (3.5 kg)	m ² /pail (18 kg)	m ² /drum (200 kg)
	Standard	At Least	At most				
1 coat	0.67	0.65	0.69	1	5	26	298
2 coats	0.67	0.65	0.69	1	5	26	298
3 coats	0.67	0.65	0.69	1	5	26	298
Total 3 coats	2.00	1.95	2.05	0.5	1	9	100

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

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Method of application

1. Clean off all dirt, loose material and prime with dilute **Dr. Fixit Rainkote No.3** in proportion with water (1:1) and allow to dry.
2. Apply **Dr. Fixit Rainkote No.3** by brush and allow it to dry between coats. Apply each coat at right angles the previous coat.
3. For maximum durability and flexibility the coating can be reinforced with "**Dr. Fixit Roofkote Polymat**"
4. The application should not apply on hot concrete or at strong windy day because the surface film will dry very fast and prevent evaporation of the underneath and cause blister.
5. The final application of **Dr. Fixit Rainkote No.3** should be protected from sunlight or mechanical damage by painting or using protection boards or backfilling.

Limitations & Precaution

- Apply **Dr. Fixit Rainkote No.3** when substrate is dry and ambient temperatures are 5 to 35°C.
- Check humidity and dew point. Apply **Dr. Fixit Rainkote No.3** when surface temperature is at least 5 °C above dew point to prevent droplets of water forming on the surface.
- Do not apply to expose reinforcing bars before concrete topping.
- Do not directly heat containers with flame, stove, hot plate or oven. Use airless spray to get high application rate.
- Patch and fill all voids and deep depressions in surface with appropriate patching material before applying **Dr. Fixit Rainkote No.3**. Carefully work material over irregular concrete to avoid pinholes.
- Before applying **Dr. Fixit Rainkote No.3**, dam all drains and drain openings.
- Do not leave **Dr. Fixit Rainkote No.3** without top coating & do not **Dr. Fixit Rainkote No.3** to be contact with direct sunlight without protection board install to protect surface.
- **Dr. Fixit Rainkote No.3** surface cannot be open to traffic prior to apply top coat.

Technical Information

Properties	Standard/Method Test	Result Test
1. Appearance	ASTM D 1227-87 Type III	Dark brown smooth cream
2. Specific Gravity		1.00 Kg/L
3. Flash Point °C		None
4. Residue by evaporation % m/m		>50%
5. Atmospheric temperature water soak (Completely immersed duration 4 weeks)		No sign of failure
6. Service Temperature		-15 to 80 °C
7. Chemical Resistance		Resistant to alcohol, salt solutions not resistant to oil
8. Heat Flow Resistance		The cured film will not flow or sag in service condition
9. Flexibility	ASTM D 1227-87 Type III	Provide a film flexible coating

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10. Shrinkage Factor	ASTM D 1227-87 Type III	45% wet to dry state.
11. Water Vapour Transmission	ASTM E-96	0.010 g/h · m ²
12. Drying Time	ASTM D 1227-87 Type III	3-6 hours
13. Direct flame test	ASTM D 1227-87 Type III	Char in place
14. Reinforce -Tensile Strength, MPa	ASTM D412	1.5 MPa
15. Reinforce -Hardness, shore A	ASTM D2240	34.9
16. Without Reinforce -Tensile Strength, MPa	ASTM D412	0.5 MPa
17. Without Reinforce -Hardness, shore A	ASTM D2240	36.4
18. Change in mass with water on one surface, Kg/m ²	ASTM D471	0.03
19. Crack bridging	ASTM C1305-08	> 2 mm.

Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry, hrs.	3	1,30	1	0,45
Dry to over coat, minimum, hrs.	24	12	10	8
Dried/cured for service, day	3	2	1.5	1
Thickness Recommend, (micron)				
At least	800			
At Standard	1000			
At most	1500			

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

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Packing

- 1 kg can
- 3.5 kg gallon
- 18 kg pail
- 200 kg Drum

Storage

- Maximum 1 year in sealed container kept under shed area.

Health & Safety Precaution

Wear glove and eye goggles during application. Avoid product to contact eyes and skin.

• Skin contact

Remove skin contact when wet with water, use kerosine or mineral turpentine when the product has dried.

• Eye contact

In the event of eye contact irrigate immediately with plenty of clean water and seek medical advice

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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