

Dr. Fixit Solyseal

LIQUID APPLIED, ELASTOMERIC WATERPROOFING MEMBRANE

Description

Dr. Fixit solyseal is one of the highest performance and cost effective waterproofing. It is liquid applied bitumen emulsion. **Dr.Fixit Solyseal** is based on bitumen and reinforced with polymer. Since it is water based, **Dr.Fixit Solyseal** has low odor and practically free of solvent.

Area of Application

- Roof Slab
- Retaining Wall
- Bath Room
- Roof Garden
- under Ground Structure
- Balcony

Rate of uses

* Theoretical consumption without allowance for loss.

Rate of uses					
	Kg/m ²			m ² /pail (18 kg)	m ² / drum (200 kg)
	Standard	At Least	At most		
1 Coat	0.70	0.68	0.71	25	285
2 Coats	0.70	0.68	0.71	25	285
3 Coats	0.70	0.68	0.71	25	285
Total 3 Coats	2.08	2.03	2.13	8	96

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

- Surface must be dry and free from dust, paint, oil or other loosing material which may affect adhesion.
- All joint should be sealed with suitable joint sealant before application.
- All crack & unsound concrete should be repair with suitable material before application.

Dr. Fixit Solyseal

LIQUID APPLIED, ELASTOMERIC WATERPROOFING MEMBRANE

2. Applications

- **Dr. Fixit Solyseal** must be stir with mixing paddle before application.
- **Dr. Fixit Solyseal** can be applied by brush or roller at the rate of 2.08 kg/sqm at 3-4 coats (1 mm approximately dry film thickness)
- Allowing the first coat to dry prior to application of the second coat.
- **Dr. Fixit Solyseal** can be reinforced with **Dr. Fixit Roofkote Polymat**, applied immediately after application of the second coat and press to immerse in the second coat.
- Recommend use for Topcoat with **Dr. Fixit Solyseal**. Use 2 coats of **Dr. Fixit Multiclor**. And wait for it to dry for about 24 hours.

3. Cleaning

- **Dr. Fixit Solyseal** should be clean immediately after use.

Technical Information

Properties	Specification / Standard	Results
1.Dry Film Thickness (mm)	BTD/TP/14/2011	1.16
2.Density at 25°C	-	1.00 Kg./L.
3.Solid Content	SS-133:1987: Appendix D	>50%
4.Water Vapour Transmission (g/m ² .day)	ASTM E 96/E 96M:2012	5.1
5.Water Penetration (0.7 kgf/cm ² for 6 hours)	Adopted DIN 1048 Part 5:1991	0
6.Adhesion to substrate (N/mm ²) - Primer S - Primer W	ASTM D4541:2002	1.13 0.91
7.Crack Bridging	BTD/TP/03/2004	Passed
8.Set-to-touch (hrs.)	ASTM D1640:03(2009)	1.5 hrs.
9.Tensile Strength (with fiber reinforcement mesh) - Before ageing (N/mm ²) - -After ageing at 50°C, 14 days (N/mm ²) - Change in Tensile Strength (%)	ASTM D412:06ae2	8.75 19.40 +122
10.Elongation at Break (with fiber reinforcement mesh) - Before ageing (N/mm ²) - -After ageing at 50°C, 14 days (N/mm ²) Change in Tensile Strength (%)	ASTM D412:06ae2	1870 1410 -25
11.Shore A Hardness (after 6 hours)	ASTM D2240:05(2010)	54

Dr. Fixit Solyseal

LIQUID APPLIED, ELASTOMERIC WATERPROOFING MEMBRANE

12.Heat Resistance	SS-133:1987: Appendix G	Passed
13.Water Resistance	SS-133:1987: Appendix I	Passed
14.Fire Resistance	SS-133:1987: Appendix J	Passed
15.QUV Accelerated Weathering (1000Hrs) -Solyseal System with "Dr. Fixit Aluflec" -Solyseal System with "Dr. Fixit Solyseal Topcoat"	ASTM G154:2012a (cycle 1)	Passed Passed

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

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

Dr. Fixit Solyseal

LIQUID APPLIED, ELASTOMERIC WATERPROOFING MEMBRANE

Limitations & Precautions

- Apply **Dr.Fixit Solyseal** when substrate is dry and ambient temperatures are 5 to 35°C.
- Check humidity and dew point. Apply **Dr.Fixit Solyseal** 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 Solyseal**. Carefully work material over irregular concrete to avoid pinholes.
- Before applying **Dr.Fixit Solyseal**, dam all drains and drain openings.
- Do not leave **Dr.Fixit Solyseal Seal** without top coating & do not **Dr.Fixit Solyseal** to be contact with direct sunlight without protection board install to protect surface.
- **Dr.Fixit Solyseal** surface cannot be open to traffic prior to apply top coat.

Packaging

- 18 kg. /pail
- 200 kg. /drum.

Storage

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

Health & Safety Precautions

- Wear glove and eye goggles during application.
- Avoid product to contact eyes and skin.
- Skin contact: Remove skin contact when wet with water, use kerosene 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.



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