Dr. Fixit Bike Lane TR

Elastomeric Acrylic Modified for Bike Lane

Description

Dr.Fixit Bike Lane TR is a water-based elastomeric acrylic, quick drying, self-cross-linked acrylic with have dry abrasion resistance ASTM D4060 of cycles, resistance against tire marking (old tire) with only light marking. Accommodate expansion and contraction of surface, abrasion resistant reducing tire marks, leave no stains, antiskid with a mixture of silica sand, and adhere to various surfaces.

Dr.Fixit Bike Lane TR consists of special formulated UV resistant, weather resistant, withstanding standing water, excellent waterproof does not form air bubbles, delamination.

Areas of Application

- Brush/spray concrete, asphaltic concrete (bitumen/tarmac), brick, bitumen mastic flooring

Rate of use

*Theoretical consumption without allowance for use.

- 0.54-0.76 kg/sqm for 2-3 coats, at a dry film thickness of 300 microns.
- 25 kg pail covers approximately 35–40 sqm at 300 microns DFT, and 14-18 sqm at 700 microns DFT.

Method of Application

1. Surface Preparation

- Fresh concrete should be left to cure for at least 28 days for optimum strength. Knock to check for no hollow sounds. Surface must be smooth free of delamination and air bubbles, surface can be smoothened by mechanical means (Grinding machine).
- Surface must be dry, moisture not over 10, clean, free of loose dirty materials, dirt, oil stains, wax and concrete curing agent.
- For sport court floor application apply (1:300) slope angle to avoid standing water.
- If concrete surface blisters, there is hollow sound when knocking concrete surface remove affected area till reaching strong concrete surface. Apply structure repair mortar **Dr. Fixit Unirepair FC** on hollow area, allow mortar to cure. Sand to smoothen repair concrete surface.
- Hairline crack (0.5-1 mm.), crocodile-cracking and bug holes and other surface defects can all be covered by **Dr.Fixit Bike Lane TR** preventing delamination and air bubbles formation.
- For old concrete surfaces, apply **Dr.Fixit Denzi Block** for 1 coat, leave coat to dry completely 1-2 hours before applying the next coat.

2. Application

- Thoroughly stir **Dr.Fixit Bike Lane TR** prior to application.
- Recommended to apply in the early morning to avoid high surface temperatures (>40°C) during application.
- For the first coat on concrete or asphaltic concrete (bitumen/tarmac) surfaces, apply **Dr. Fixit Bike Lane TR.**
- Apply **Dr.Fixit Bike Lane TR** at 0.54-0.76 kg/sqm. of 300 microns dry film thickness (2-3 coats recommended).
- Allow each coat to cure for 30 minutes before applying the next coat. Apply each coat perpendicular to the previous one.
- Allow the Dr.Fixit Bike Lane TR coating to cure for 2 hours before opening it to full traffic.

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3. Precautions & Limitations

- Do not add water into **Dr.Fixit Bike Lane TR.**
- Working temperature: 10-35ºC.
- Avoid applying under sunny weather & hot surface temperatures conditions. Recommended to apply before 10 AM or in the evening under Thailand's climate conditions.
- Concrete surfaces must be dry, with a moisture content not exceeding 10%.
- Avoid applying during rain. Rain can wet the surface and increase moisture, which slows the curing time and may cause air bubbles and delamination.

4. Cleaning

- Immediately wash equipment and tools with water after application.

Technical Information

Properties	Standard Method	Test Results
1.Specific Gravity (g/ml)	ASTM D70-03	1.53
2.Solid Content: - by Volume (%) - by Weight (%)	-	 70% 72.9%
3.Viscosity (KU)	(KU)	105-120
4.pH		10-11
5.Drying Time: - Surface Dry - Hard Dry	ASTM D5895-13	 < 15 minutes < 2 hours
6.Recoat Time	-	30 minutes
7.Service Time	-	2 hours
8.Scrub Resistance	ASTM D2486	800,000 cycles
9.Adhesion to Concrete	ASTM D4541-09	260 psi
10.Hot Tire Stain Resistance	TS 13-018-1	Pass
11.Pencil Hardness Test	ASTM D 3363-05	7H
12.Anti-Skid Resistance (SRV)	BS EN 1436	>50
13.Abrasion Resistance - Abrasion Wheel H-22 - Load 1,000 g - Cycle 1,000 rpm	ASTM D4060	1618.5 mg
14.Hardness (Shore D)	ASTM D2240-07	25
15.Bending Test (Cylindrical Mandrel),Ø 3 mm.	ASTM D522-93A	Paint film not change
16.QUV Test 1,500 hrs.	ASTM G154-06	ΔE* 0.52

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Packaging

- 25kg/pail
- 8 colors white/grey/yellow/red/green/ blue/blassing blue/black

Storage

- 12 months in sealed container kept under shaded area at 5 to 30 °C temperature range.

Health & Safety Precautions

- Store in cool area.
- Keep away from flames.
- Avoid long and repeated skin exposure to Dr.Fixit Bike Lane TR.
- Avoid inhaling Dr.Fixit Bike Lane TR vapor & mist from spray.
- When not using Dr.Fixit Bike Lane TR should close package lid securely.
- Wear respirators, goggles, protective clothing.

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