

Dr.Fixit Pidiguard 82

2 Component Epoxy for Concrete and Steel Coating

Description

Dr.Fixit Pidiguard 82 is 100% solid epoxy. It protects concrete and steel structure from corrosion by chemical and rust. Dr.Fixit Pidiguard 82 have excellent applicability such as strong adhesion, hardness, viscosity, expansion and contraction, excellent chemical resistant to sea water and oil even in high contraction of chemicals, sewage, salt water, organic acid, inorganic acid, alkali. It meet TIS 691 coating standard.

Dr.Fixit Pidiguard 82 is easy to use and primer not needed. It is strong, withstand heavy use, long lasting, scratch and abrasion resistant, non-toxic substances and environmental friendly.

Areas of Application

Corrosive protective coating for concrete and steel structures

Sewage Works.

- Domestic, potable, drinking water.
- Sea water.
- Industrial Chemical Factory Drain System
- Dock and Harbour Installations
- Cooling Towers
- Exterior and Interior Coating for underground and submerged structures
- Protect surface structure from tide and wave actions

Rate of Uses

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

Rate of Uses			
	Litre/ m ²	m ² /set (4.5 Litre)	m ² /set (17.5 Litre)
	Standard		
1 Coat	0.35	13	50
2 Coats	0.35	13	50
Total 2 Coats	0.70	7	25

*minimum 2 coat depending on the porosity of the surface

Thickness

Thickness (Micron)			
	Standard	At Least	At Most
1 Coat	200	150	250
2 Coats	200	150	250
Total 2 Coats	400	300	500

Method of Application

1. Surface Preparation

- Surface must be clean and free from dirt, rust, grease, oil, and loose particles.
- Thoroughly clean the concrete surface by harsh wire brushing. Clean the dust by compressed air and wash the surface with water to remove accumulated dust & dirt to achieve good bonding.

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- Clean the steel surface to remove rust scales, by wire brushing & scrapping. The best method to clean the surface is sand / grit blasting for best performance.
- Can also remove rust on steel prior to application of product.
- For new surfaces to clean oil & grease use degreasing solvents, such as turpentine/thinner.
- Surface must be bone dry before application.

2. Mixing

- Mix Part A with drill mixer at low speed (250-300 revolutions per minute) to a homogenous paste prior to mixing with Part B.
- Pour Part B onto container containing Part A.
- Mix Part A and Part B with drill mixer at low speed (250-300 revolutions per minute) for about 3-5 minutes
- Leave mix to bind together for 5 minutes prior to application.

3. Application

- Apply the mixed Pidiguard 82 by brush or spray over the prepared surface as recommend
- Coverage rate (0.70 ltr/sqm.) minimum 2 coats application.
- Allow first coat to dry for 8-10 hrs., (3-4 hrs. when atmospheric temperature is higher than 30 °C)
- Apply second coat, in reverse direction of first coat.
- Allow the coating to cure for 7 days.

4. Cleaning

- Clean all tools and equipment with oil immediately after application.

Precautions and limitations

- If when opening Part A there is settling or skinning, use a drill mixer at low speed (250-300 rpm) mix until homogenous paste is form prior to apply Part B.
- Do not dilute with any thinners.
- Apply in the recommend coverage rate for desirable dry film thickness.
- Work in well-ventilated area.

Technical Information

Properties		Test Standards	Results
1.Appearance	Part A Part B	-	Viscous Liquid Clear Liquid
2.Colour	Part A Part B	-	Black, Red, Grey, Green, White, Yellow Clear
3.Mix Ratio by weight			4 : 1 (Part A: Part B)
4.Specific Gravity at 25 °C		ASTM D-3800 – 79	1.40 – 1.45 g/ml Mix Part A+ Part B by weight
5.Viscosity at 25 °C		TIS 691-2547	70-100 KU Part A+ Part B
6.Pot Life at 25 °C		-	10-12 hours
7.Tack Free Time at 25 °C		TIS 691-2547	1-2 hours
8.Recoat Time at 25 °C			10-12 hours
9.Full Cure Time at 25 °C			7 days
10.Using properties (Rolling)		TIS 691-2547	Pass
11. Bending resistance		TIS 691-2547	No cracking of film

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12. Adhesion	TIS 691-2547	8.12 Mpa
13. Prohibited substance -Lead -Mercury -Cadmium, hexavalent chromium and antimony	TIS 691-2547	Pass
14. Humidity resistance test	TIS 691-2547	Pass
15. 120 hours chemical resistant immersion (Dilute Acid, Alkali and Saline Solutions)	TIS 691-2547	Pass
16. Salt spray test 240 hours	TIS 691-2547	Pass
17. Salt spray test 240 hours (400 Micron)	TIS 691-2547	Pass
18. Salt spray test 600 hours	ASTM B117-19	Pass Specimen is normal, no blistering. No rust on the surface.
19. Salt spray test 800 hours	ASTM B117-19	Pass Specimen is normal, no blistering. No rust on the surface.
20. pH Application Value		3 – 11
21. Benzene 91 Octane Fuel Resistance	TIS 691-2547	Pass
22. Water Test	TIS 257 -2006	Pass
23. Flashpoint	ASTM D 3278-20	30.0 °C

Dr.Fixit Pidiguard 82 meets TIS 691-2547 standards.

Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry, hrs.	8	4	3	2
Dry to over coat, minimum, hrs.	24	10	6	4
Dried/cured for service, day	14	7	4	2
Thickness Recommend, mm.				
At least	0.25 mm.			
At most	0.30 mm.			

Packaging

- 17.5 ltr (24.5 kg) Set Part A 14 ltr, Part B 3.5 ltr
- 4.5 ltr (6.3 kg) Set, Part A 3.6 ltr, Part B 0.9 ltr

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Storage

- Store for 12 months from manufacturing date in sealed packaging.
- Keep in cool dry place away from sunlight and potential ignition sources.

Health and Safety Precautions

- Wear gloves and goggles during application.
- If product make eye contact wash with clean water only and seek medical advice immediately.
- If product make skin contact clean with acetone soaked cloth and wash with soap and clean water.
- Keep out of children reach.
- Do not smoke during application.
- Do not inhale vapour.

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 ModernformTower 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