

Dr. Fixit Pidiseal 2K

Polyasphartic (Hybrid Polyurea)

Description

Dr. Fixit Pidiseal 2K is an elastomeric polyaspartic waterproofing membrane designed for protecting concrete surfaces exposed to UV radiation and weathering.

Dr. Fixit Pidiseal 2K is supplied as a two-component liquid system. The two components must be thoroughly mixed before application. **Dr. Fixit Pidiseal 2K** cures by chemical reaction and is not affected by ambient relative humidity. Once fully cured, it forms a seamless, highly elastic waterproofing membrane capable of bridging cracks while providing an impermeable barrier against water penetration.

Area of Application

- Roof deck, parking deck, amenity deck, balcony, podium.
- Potable water tank, swimming pool base slabs, aquarium.

Rate of Uses based on Specified Thickness

* Theoretical consumption without allowance for loss.

Thickness (mm)	Rate of use	
	Kg/Sqm	Sqm/Unit
1.0	1.9	8.6
1.5	2.8	5.8
2.0	3.7	4.3

Method of Application

Dr. Fixit Pidiseal 2K is applied after concrete is fully set and cured.

1. Concrete Preparation

1.1 New Concrete Surfaces

- New concrete surfaces should be allowed to cure for a minimum of 28 days.
- The surface must be clean, sound, and free from dirt, dust, oil, wax, form-release agents, concrete curing compounds, grease, and any other contaminants that may adversely affect the adhesion of the waterproofing material.

1.2 Existing Concrete Surfaces

- Surfaces with laitance, efflorescence, algae, or mold shall be mechanically removed using a grinding machine, followed by thorough cleaning.
- Cementitious surfaces or surfaces contaminated with mineral deposits or chemical residues shall be properly prepared by mechanical cleaning methods. Use a grinding machine, scraper, or other suitable mechanical equipment to completely remove the affected cementitious surface layer.
- Damaged or deteriorated areas, such as surfaces containing holes, voids, or unsound concrete, shall be completely removed.

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Surface Levelling

- The surface must be smooth and even. Any raised or protruding areas shall be completely removed by grinding until the surface is level with the surrounding substrate.
- For roof deck applications, the surface shall be provided with an adequate slope of 1:100 to ensure proper water drainage and prevent ponding.
- Where depressions or ponding areas are present, mechanically roughen the affected surface and level it using **Dr. Fixit Unirepair FC** structural repair mortar. Allow the repaired areas to cure and dry thoroughly for at least 7 days before proceeding with subsequent work.

Repair of Cracks and Voids

- Where the existing surface is delaminated, unsound, or produces a hollow sound when tapped, all loose, delaminated, or hollow areas shall be removed until a sound substrate is reached. Repair and level the affected areas using **Dr. Fixit Unirepair FC** structural repair mortar.
- Where holes or voids are present, repair and level the surface using **Dr. Fixit Unirepair FC** structural repair mortar. Allow the repaired areas to cure and dry thoroughly for at least 7 days before proceeding with subsequent work.
- For cracks 3 mm wide or greater, cut or chase the crack to form a U-shaped groove. Fill and repair the groove using **Dr. Fixit MS 25 MS Sealant**. Allow the sealant to cure thoroughly for at least 1 day before proceeding with subsequent work.

2. Primer

- The concrete substrate must be dry and free from moisture. If the moisture content exceeds 5%, or if the substrate is highly porous, the application of **Dr. Fixit Denzi Block** moisture-resistant primer is recommended. Allow the primer to dry for approximately 1–2 hours before proceeding with subsequent work.

3. Application

- Map out the area to estimate how many liters are needed in working grid.
- Stir each component separately using a low-speed mixer at 250–300 rpm until homogeneous.
- Pour Part B into Part A. The components are pre-portioned in the correct mixing ratio. If a smaller quantity is required, weigh out the components at a ratio of 12 parts Part A to 4 parts Part B by weight.
- Mix the components with low-speed mixer at (250 - 300 rpm/min) until content is homogeneous.
- Apply **Dr. Fixit Pidiseal 2K** by brush or roller at a rate not exceeding 1.5 kg/m² per coat.
- If a higher film thickness is required, allow the previous coat to dry for 2–4 hours before applying the next coat. Repeat the process until the required film thickness is achieved.
- The next coat must be applied within 7 days.

4. Curing

- Let the coating cure for 24 hours at 30°C before water leak testing.

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Precautions and Limitations

- **Dr. Fixit Pidiseal 2K** should be applied at temperatures between 5°C and 35°C.
- Check the ambient relative humidity before application. The substrate temperature must be at least 5°C above the dew point to prevent condensation from forming on the surface.
- Do not apply to expose reinforcing bars before concrete topping.
- Do not apply under intense direct sunlight or onto excessively hot surfaces. Application is recommended before 10:00 a.m. or in the evening.
- Before applying **Dr. Fixit Pidiseal 2K**, the substrate must be dry and free from surface moisture. Any ponding or standing water must be completely removed.
- All subsequent coats must be applied within 7 days.

Technical Information

Properties	Standard Test	Result Test
1. Appearance	-	Color
2. Solid content A+B	W-TP-010	>87 %
3. Density@25°C A+B	W-TP-045	1.6112 Kg/L
4. Viscosity A+B	W-TP-001	30,000 cPs
5. Drying Time at @25°C	W-TP-046	3 Hrs. 20 min.
6. Elongation, 7 days	ASTM D412	900 %
7. Tensile Strength, 7 days	ASTM D412	3.47 N/mm ²
8. Modulus@100% elongation	ASTM D412	3.5 N/mm ²
9. Recovery from 200% elongation	ASTM D412	180%
10. Tear resistance	ASTM D624	31.09 N/mm ²
11. Water absorption	W-TP-042	0.41 %
12. Adhesion to Concrete 7 Day	ASTM D 4541	3.55 Mpa
13. Adhesion to Concrete 7Day (Immersion in water)	ASTM D 4541	2.93 Mpa
14. Hardness Shore OO	ASTM D2240	>85
15. Hardness Shore A	ASTM D2240	>50
16. potlife	W-TP-013	50 Min.
17. Water vapor transmission rate	ASTM-E96	47.2 g/m ² .day
18. Crack Bridging	ASTM C1305-16	No. Crack, splitting or pin holes in the joint area.
19. QUV 1000 hrs.	ASTM G 154-06	Normal, not changed
20. Solar Reflectance	JIS R3106	85.5%
21. Solar Absorptance	JIS R3106	14.5%

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Properties	Standard Test	Result Test
22.Thermal Emittance	JIS R3106	0.86
23.VOCs Contents	ISO 11890-2:2013	0.0150 g/g
24.Chemical Resistance -Dilute KOH 5% 24 hrs. -Dilute Sulphuric acid 5% 24 hrs.	ASTM D543	Pass No Blister Pass No Blister
25.Flashpoint °C	ASTM D 3278-20	39 °C

Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry, hrs.	6	4	3	40 min
Dry to overcoat, minimum, hrs.	8	5	4	2
Dried/cured for service, hrs.	72	48	24	12

Packaging

- 16 kg set. 12 Kg part A, 4 kg part B

Color: Cream, Grey, Green, Red

Shelf Life & Storage

1 year in sealed container kept under cool between 5 °C and 30 °C away from water.

Health & Safety Precaution

- Avoid skin contact and eye contact.
- Wear respirator, goggle, protective clothing during application.

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