

# Dr. Fixit Pidotop Lithium

Polymer modified Lithium Silicate Liquid Floor Hardener.

## Description

**Dr. Fixit Pidotop Lithium** is a liquid applied floor hardener. It works by filling concrete natural pores with hard silicate crystals. As concrete floor become dense instead of porous, water and other contaminants are blocked. Concrete surface can be clean easily.

**Dr. Fixit Pidotop Lithium** penetrates up to 1 cm deep on bare new and old concrete mix. Lithium silicate is safer for long term concrete life. And specially designed polymer is used to as curing aid. Depending on the requirement, concrete can be finished for safe texture or highly polished to ease cleaning. Colors are also available to help with uniform aesthetic design.

## Area of Application

- Hygienic Floors
- Warehouse Floors
- Factory Floor
- Car parks

## Rate of Uses (Depends on concrete condition)

\* Theoretical consumption without allowance for loss.

Rate of uses					
	Litre/m <sup>2</sup>			m <sup>2</sup> / gallon (5 Litre)	m <sup>2</sup> /pail (20 Litre)
	Standard	At Least	At most		
<b>1 Coat</b>	0.14	0.09	0.19	29	142
<b>2 Coats</b>	0.14	0.08	0.19	29	142
<b>2 Coats</b>	<b>0.28</b>	<b>0.19</b>	<b>0.38</b>	<b>13.5</b>	<b>71</b>

## Method of Application

**Dr. Fixit Pidotop Lithium** is applied any time after concrete is fully set.

### 1. Concrete Preparation :

- Concrete surface must clean, strong, free of all loose dirty materials and dust free, oil stain, wax, liquid coating/paint, concrete curing agent, grease or other stains. Cleaning by using grinding machine or chipping machine to remove all defect surfaces such as peel of surface, weak concrete, cavities, etc.
- Polished Concrete has 3 level
  1. Zero Exposure To clear the cement waste and cement water layer remove 0 – 2 mm from the concrete
  2. Partial Exposure to get rid of old worn-out cement. remove 2 - 3 mm from the concrete
  3. Full Exposure for the old cement floor which has traffic loading and unloading, remove 3 - 5 mm from the concrete

### 2. Application :

- Stir **Dr. Fixit Pidotop Lithium** well before use. This ensures consistent color and hardness.
- Map out the area to estimate how many liters are needed in working grid.
- Brush/Roll **Dr. Fixit Pidotop Lithium** at 0.28 – 0.38 Lts/m<sup>2</sup>/coat. (depend on porous concrete)
  - \***New Concrete** applied 2 coat of **Dr. Fixit Pidotop Lithium**
  - \***Old Concrete** applied 3 coat of **Dr. Fixit Pidotop Lithium**
 Leaving it to dry for 1-2 hours/coat.

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### 3. Curing

- Floor can be walked on after 1 hour.
- Light traffic can be made after 12 hours.
- Working floor can be fully used after 1 day.
- Maximum hardness is reached after 7 days curing.

### Precautions & Limitations

- Lithium Silicate will freeze. It is recommended to store in an area between 5 °C to 50°C.
- Do not puddle or apply in thick coats.(Wet film thickness maximum 1 mm.) Too thick coat will have skinning effect and coating cannot penetrate the concrete. Pick up the skin and roll coating for good film appearance.
- Lithium Silicate is harmful if swallowed. Follow recommended safety guidelines.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Do not apply on the basin surface because if there is a basin. Will become a white stain. This is caused by the chemical reaction of the product.
- The use of highly alkaline or acidic cleaners on the treated surface is not recommended and can be damaging.
- Protect metal, glass, wood, brick, and painted surfaces. Wash immediately with clean water if contact occurs.

### Technical Information

PHYSICAL PERFORMANCE PROPERTIES	
1.Appearance	Milky Liquid
2.Specific Gravity	1
3.pH	10.5-12
4.Solid Content	22.5-23.5
5.Viscosity	≤ 20 (Brookfield RV#1, 100 rpm),cps
6.VOC Content	0 g/L
7.Flash Point	Not Applicable
8.Freeze Point	0°C
9.Shelf Life	1 year in sealed container kept under shaded and dry area.
10.Moh's Hardness (polished surface)	8 – 9 Topaz to Corundum
11.Initial surface absorption -at 10 minutes -at 30 minutes -at 1 hour BS 1881 : Part 208 : 1996	<0.05 ml(m <sup>2</sup> .s)
12.Testing hardened concrete depth of penetration of water under pressure (BS EN 12390-8:2009) -10 Bar -15 Bar -20 Bar	No leakage. No leakage. No leakage.
13.Thermal Shock test (3 cycles) Temperature -30°C - +30°C	No abnormality in appearance.

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14. Lead	<0.001 %w/w of non-volatile matter
15. Cadmium	<0.001 %w/w of non-volatile matter
16. Hexavalent chromium	<0.0005 %w/w of non-volatile matter
17. Mercury	<0.001 %w/w of non-volatile matter
18. Abrasion resistance (Weight loss)	0.27 g (ASTM D4060) Pidotop Lithium.
19. Resistance to Impact (Weight 2LB)	Paint film resistance to impact at 20 inch pound (EN ISO 6272)
20. Bond strength by pull-off	217 psi (EN 1542)

### Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Surface (touch) dry, hrs.	1.5	1	45 min	25min
Dry to over coat, minimum, hrs.	2.5	2	1	1
Dried/cured for service, hrs.	72	48	24	12

### Packaging

- 3.785 Liters.
- 20 Liters.

**Colors:** Clear

### Shelf Life & Storage

1 year in sealed container kept under shaded and dry area.

### 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.

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