

# Dr. Fixit Pidotop 444



## CARBORUNDUM BASED CONCRETE FLOOR HARDENER

### Description

**Dr. Fixit Pidotop 444** consists of Portland cement, precisely graded emery aggregates, plasticiser and special additives. It is used as a concrete floor hardener for heavy traffic areas, power stations, workshop & warehouses because it provides very high abrasion resistance to fresh concrete floor as a monolithic surface. It improves the strength & impact resistance of concrete floor to allow heavy-duty movements over the floor.

### Standard compliances / specification

- Meets the requirements of ASTM : C944 , BS: 1881: part 116 ; IS : 1237

### Areas of Application

- Heavy traffic areas.
- Power stations.
- Shipyards.
- Helipads.
- Aircraft Hangers.
- Heavy industry.
- Agricultural buildings.
- Distillation plants.
- Warehouse floors, loading bays.
- Engineering workshops.

### Features & Benefits

- **Permeability** - High impermeability compared to plain concrete under the same conditions.
- **Wear resistance** - Improves wear resistance of concrete.
- **Adhesion** - Forms monolithic bonds with fresh concrete & becomes an integral part of it.
- **Abrasion resistance** - Improves the abrasion resistance of concrete by 225%.
- **Economics** - Economical floor treatment improves abrasion, impact & other mechanical properties of concrete.
- **Dust resistance** - Improves dust generation resistance because of very smooth surface finish & hardness.
- **Corrosion resistance** - Non-ferrous aggregate, hence will not degrade due to rust in wet condition.
- **Strength** - Improves compressive strength of the treated surface.

### Joint Design

- Expansion & moving joints are to be brought over through subsequent flooring system & sealed with properly selected sealants.
- All other stable joints (dummy joints, etc.) are to be filled up prior to lay the screed as per the designed thickness.
- Joints should be cleaned and prepared as per the instruction of the TDS.

### Method of Application

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#### 1 SURFACE PREPARATION

- The base concrete should be of proper mix design without any floating of fine cement paste, no segregation & bleeding.

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#### 2 APPLICATION

- Dr. Fixit PIDITOP 444 should be applied at an even application rate of 5 kg/m<sup>2</sup> - 7 kg /m<sup>2</sup>. It is recommended that the floor be marked into bays of known areas. Sufficient materials should then be laid out to meet the

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recommended spread rate.

- It is ideally applied to a surface, which is neither too wet nor dry. Recommended time period is 30 - 40 minutes at the temperature of 35 - 40° C, after the base concrete has hardened enough to leave footprints.
- Application of Dr. Fixit Pidotop 444 should begin without delay when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3 - 6mm. Concrete should also have a wet sheen.
- On large floors it will be necessary to work progressively behind the laying team to ensure application at the correct time.

### Dr. Fixit PIDITOP 444 can be applied in two-layer application

- Normally the first application is applied at an even rate of 2 - 3 kg/m<sup>2</sup> onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats or, on large areas, a power float, may be used. It is important, however, that the surface is not overworked.
- Immediately after floating as above, the remaining 2 kg/m<sup>2</sup> of Dr. Fixit Pidotop 444 is applied evenly over the surface at right angles to the first. Again, when moisture has been absorbed, the surface can be floated in the same way as before.
- Final finishing of the floor can be done with a power float when the floor has sufficiently stiffened to withstand the mechanical force.

### Bay edges application

- Bay edges are likely to suffer particularly heavy wear or impact and where saw-cut transverse control joints are to be located, it is desirable to give these areas additional protection, by one of the following methods prior to full treatment of the entire surface.
- Immediately after leveling the freshly placed concrete, Dr. Fixit Pidotop 444 should be sprinkled by hand at a rate of 5kg/m<sup>2</sup> in a strip 100 mm wide along the bay edge and hard-trowel led into the surface.

## 3 CLEANING

- All tools & tackles are to be cleaned immediately after application with plain & soap water solution.

### Precautions & Limitations

- The base concrete should have minimum cement content of 300 kg/m<sup>3</sup>, and an on-site slump of 75 - 100 mm.
- For the best results, W/C ratio should be as less as possible.
- Do not add additional water or dry cement during finish.
- For concrete with optimised W/C ratios, rate of broadcast will be max. 2kg/m<sup>2</sup> in 2 stages.

### Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Colour		Cement grey, Special colour - on request
Hardness, Mohs scale	BS 1881, Part 116	7 - 8
Compressive strength, N/mm <sup>2</sup>	ASTM C 109	70
Chemical resistance Mineral oils Mild acids Salts Motor oils		Passes

### Packing

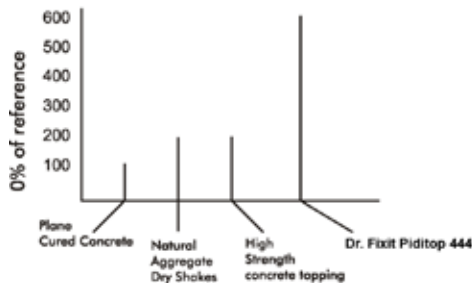
25 kg bag

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## CARBORUNDUM BASED CONCRETE FLOOR HARDENER

Relative Abrasion Resistance ASTM C 779 Max. Ranges.



### Coverage

Light and medium duty - 5 kg/m<sup>2</sup>

Heavy duty - 7 kg/m<sup>2</sup>

### Shelf Life & Storage

Shelf life is 12 months from the date of manufacturing. Store in a cool & dry place in unopened condition.

### Health & Safety Precautions

- **Skin Contact** : Wash skin with soap & water. Remove contaminated cloths. Seek medical attention if irritation persists.
- **Eye Contact** : Immediately splash eyes with plenty of water. Consult Physician if irritation persist.
- **Inhalation** : Move the subject into fresh air. If breathing is difficult, give artificial respiration. Obtain medical attention immediately.
- **Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.

Note to Physician:

There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.

### Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



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