

# Dr. Fixit Pidotop 333



## NON-METALLIC CONCRETE FLOOR HARDENER

### Description

**Dr. Fixit Pidotop 333** is composed of best quality ordinary portland cement, properly selected & graded washed & dried aggregates, polymer & additives. It is used as a concrete floor hardener for residential, commercial & industrial floors, because it forms a 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.

### Typical Application

- Steel industries.
- Power stations.
- Heavy industry.
- Agricultural buildings & yards.
- Distillation plants.
- Desalination plants.
- Laboratories.
- Abattoirs.
- Warehouse floors, loading bays and workshops.
- Railway platforms.

### Features

- **Ease of application** - Pre-mixed powder, easy to dry shake & trowel.
- **Strength** - Excellent compressive strength increases wear resistance of concrete floors.
- **Abrasion & impact resistance** - High abrasion & impact resistance provides erosion resistance due to movements of vehicular traffic. Develops 80% more abrasion resistance than control concrete.
- **Uniformity** - Provides monolithic bond to fresh concrete surface, so prevents joints & pothole formation.
- **Dust resistance** - Smooth & hard surface prevents dust generation due to movements.
- **Corrosion** - Does not contain ferrous aggregate, so any rusting & erosion of floor.
- **Water absorption** - Very low water absorption because it forms dense & low permeability substrate.
- **Colour shades** - Available in grey colour.

### Packing

25 kg bag

### Joint Design

- All expansion joints, movement joints are to be brought over through subsequent flooring system & to be treated with sealants.
- Consult technical team for detailed specification in case of other type of joints.

### Method of Application

#### 1 SURFACE PREPARATION

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

#### 2 APPLICATION

- Dr. Fixit Pidotop 333 should be applied at an even application rate as per desired application. After laying the concrete divide & mark the bays of equal areas. Dry shake uniformly the recommended dosage of material over the green concrete.

\*This TDS will supersede all our earlier TDS / Ref. No. SC/19/03-13



- Dr. Fixit Pidotop 333 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 leaves light foot prints of about 3 - 6 mm concrete should 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 Pidotop 333 is applied in two layers. Normally the first application is carried out approx 50% of dosage 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 using 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 50% of Dr. Fixit Pidotop 333 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 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 333 should be sprinkled by hand as per light /medium/ heavy duty requirement.

### 3 CLEANING

- All tools & tackles are to be cleaned immediately after application with 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.
- The concrete mix should be designed to minimize segregation and control bleeding, although some limited bleed is desirable to ensure sufficient moisture available to wet the Dr. Fixit Pidotop 333 when it is first applied.
- Do not add additional water or dry cement during finish.
- For concrete with optimized W/C ratios, rate of broadcast will be max. 2kg/m<sup>2</sup> in 2 stages.

### Technical Information

PROPERTIES	TEST METHODS	TYPICAL VALUE
Colour		Cement grey & others
Hardness, Mohs		7
Compressive strength, N/mm <sup>2</sup> 24 hrs, (W/P = 0.12)	ASTM C 109	15
Compressive strength, N/mm <sup>2</sup> 3 days, (W/P = 0.12)		20
Compressive strength, N/mm <sup>2</sup> 7 days, (W/P = 0.12)		30
Compressive strength, N/mm <sup>2</sup> 28 days, (W/P = 0.12)		45
Abrasion Resistance H-22 / 1000 gr / 1000 cycles	ASTM D4060	< 1.5 gms
Resistance to wear	IS 1237 : 1980	Passes

### Theoretical Coverage

Light duty application 2 kg/m<sup>2</sup>, Medium duty application 3-5 kg/m<sup>2</sup> and Heavy-duty application 7 kg/m<sup>2</sup>.



## Shelf Life

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

## Health & Safety

- Cementitious mortars, when mixed with water or become damp, release alkalies which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes.
- **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.

## Other Products Categories available

Dr. Fixit brings the widest range of Construction Chemicals



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