

VALUE ADDITION TO CONCRETE AND MORTAR

Description

Dr. Fixit Tonic is specially formulated additive composed of cement compatible, plastisizing agent, polymers & additives. It is used as a waterproofing additive with an additional benefits of plastisizing action, cohesive mix & waterproofing to cement concrete / mortar / plasters. It improves the workability, compressive strength than control & integral waterproofing properties of cement concrete & plasters after curing.

Standard Compliance / Specification

- Meets the requirement of IS : 2645-1975 and IS : 9103-2000 standard.

Areas of Application

- Waterproofing of concrete and sand-cement mortar used in
- Basements,
- Roof slabs and screeds,
- Water tanks & water retaining structures,
- External plastering,
- Bathrooms and balconies,
- Sumps and drains

Features & Benefits

- **Compatibility** - Being a liquid, easily dispersible & compatible with concrete / mortar mixes.
- **Cohesiveness** - Makes the concrete/mortar more cohesive in low W/C ratio, hence no bleeding & segregation.
- **Durability** - Increases durability, by improving integral waterproofing of concrete.
- **Breathing** - It retains the breathing efficiency of concrete.
- **Permeability** - It reduces the permeability of water into concrete by blocking the capillaries.
- **Economics** - It is an economical additive as compare to other waterproofing materials.
- **Workability** - Improves workability of freshly mix cement concrete.
- **Water reduction** - W/C reduction is possible upto 8%, which improves the curing properties of concrete.
- **Strength** - Increases the strength of the concrete than control mix.
- **Shrinkage** - Reduces shrinkage crack development in plaster & concrete.

Method of Application

- Charge cement & aggregates to concrete mixer as per the mix design, mix in dry state for 1-2 minutes.
- Start addition of 75 - 80% mixing water & mix for 2-3 minutes.
- Dr. Fixit Tonic is added as per the recommended dosage into the remaining mixing / gauging water, then add to concrete mixer & mix for another 2 minutes.
- Discharge the concrete / plaster for application.
- Cure the applied mortar or concrete as per good construction practices.

Precautions & Limitations

- Do not add Dr. Fixit Tonic to dry cement & aggregate mix.
- Maintain water-cement ratio as low as possible (< 0.50).
- Do not increase the dosage of Dr. Fixit Tonic than recommendation.

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Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free flowing thin liquid
Colour		Wine red colour
Sp. Gravity @25°C. gms/cc		1.05 ± 0.02
Non volatile content, %		13.5 ± 0.5 %
PH value		11 - 13
Setting time, minutes	IS : 2645 : 1975	Initial - 130 ; Final - 240
Compressive strength, N/sqmm	IS : 2645 : 1975	7 days - 460 MPa
Chloride content	IS : 2645 : 1975	0.002%
Water permeability	IS : 2645 : 1975	35 % of Control
Resistant to chloride ion penetration	ASTM : C 1202 -97	Moderate

Dosage

- 200ml per 50Kgs bag of cement.

Packaging

- 200 ml, 1, 5, 10, 20 liters

Shelf Life & Storage

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

Health & Safety Precautions

- Use rubber hand gloves & safety goggles, while using Dr Fixit PIDIPROOF LW.
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children's.

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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