

Dr. Fixit Coal Tar Epoxy



TWO COMPONENT COAL TAR EPOXY COATING FOR CONCRETE SURFACES

Description

Dr. Fixit Coal Tar Epoxy is two part coal tar epoxy based coating, composed of best quality dehydrated coal tar, liquid epoxy resins and curing agent, properly selected & graded inert fillers, additives and solvent. It is used as an anticorrosive & protective coating for concrete as well as steel structure because it has excellent chemical resistance properties in atmosphere or in contact with chemical solutions such as effluents, sewage, salty water and organic / inorganic acids & alkalis. It is suitable for structures in submerged conditions like pipelines, foundations, tanks, sewage works, effluent plants, docks, harbor installations, etc.

Areas of Application

Corrosion resistant coating for concrete and metal structures such asx

- Sewage works.
- Effluent plants.
- Dock and harbor installations.
- Tanks.
- Cooling towers.
- Foundations above ground or in submerged conditions.
- Protection to surfaces exposed to tidal action.

Features & Benefits

- **Consistency** - low viscosity formulation helps for application by brush or spray.
- **Adhesion** - excellent adhesion to concrete, asbestos & metallic surfaces.
- **Durability** - Gives long lasting corrosion protection.
- **Abrasion** - Resistance to abrasion makes it suitable for application over floors of tanks & concrete rafts before filling the soil.
- **Chemical resistance** - Resistant to wide range of acids , alkali & salt solutions , effluents & sewage.
- **Primer** - Self priming ability, makes it economical.

Method Of Application

1 SURFACE PREPARATION

- Surface must be clean and free from dirt, rust, grease, oil, and loose particles.
- Thoroughly clean the concrete surface by harsh wire brushing. Clean the dust by compressed air. If possible, wash the surface with water to remove accumulated dust & dirt to achieve good bonding,
- Clean the steel surface to remove rust scales, by wire brushing & scrapping. The best method to clean the surface is sand / grit blasting for best performance.
- Rust removers & converter may be used to prepare the steel surfaces.
- For new surfaces to clean oil & grease use degreasing solvents, such as turpentine or thinners.
- Surface must be bone dry before application

2 MIXING

- Mix both part A & part B components in their individual containers thoroughly.
- Transfer the base component [part- A] to hardener component [part - B] container completely.
- Mix the material manually using wooden batten or steel spatula thoroughly for 3- 5 minutes to achieve uniform mix.
- Material can be mixed by using drill machine attached with paddle stirrer at 250 - 300 rpm for 3-5 minutes
- Allow mixed material to mature for another 5 minutes because chemical reaction starts

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3 APPLICATION

- Apply the mixed material by brush or spray over the prepared surface as the recommended coverage rates.
- Allow first coat to dry for 8-10 hrs, [3-4 hrs when atmospheric temperature is higher than 30°C]
- Apply second coat, in reverse direction of first coat.
- Allow the coating to cure for 7 days.

Precautions & Limitations

- It is advisable to wear hand gloves and safety glasses to avoid contact with skin or eyes during application.
- Apply the material as supplied, do not dilute with thinners.
- Apply the material as per the given coverage rates to achieve the desire dry film thickness
- Any splashes into the eyes must be immediately washed only with clean water and medical advice should be taken.
- Contact with skin can be removed with a cotton swab soaked in Acetone and subsequently washed with soap and water.
- Provide proper ventilation, during application in tanks or close areas.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance Part - A Part - B		Free flowing clear liquid Free flowing viscous liquid
Colour - Part - A Part - B		Water white to pale yellow Black
Mixing ratio, parts by weight		1 : 3 [part-A : part-B]
Sp gravity @ 30°C, [Mix], gms/ ml	ASTM D 3800 - 79	1.24 - 1.26
Viscosity @ 30°C, Ps		2 - 3
Pot life @ 30°C, Hrs		4 - 5
Tack free time @ 30°C, hrs		3 - 4
Recoat time @ 30°C, Hrs		8 - 10
Full curing time @ 30°C, days		7
Dry Film Thickness, Microns for 2 coats		250 - 300
Flexibility, Mandrel test	ASTM : D 522 - 93	No cracking of film & adhesion loss
Bonding / adhesion, N/MM ²	ASTM : D 4541	1.5
Scratch resistance, for 7 kg load	ASTM : D 7027 - 05	Passes
Water resistance, immersion - 7 days	ASTM : D 870 - 02	Passes
Chemical resistance, immersion in dilute acid alkali & salt solutions - 7 days	ASTM : C 543	Passes
Resistance to micro organisms	ASTM : G 21	No growth observed

Coverage / Usage

Depends on consumption.

Packing

9 kg [Part-A & Part- B]



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Shelf Life & Storage

- Shelf life is 12 months from date of manufacturing in unopened containers.
- Store at cool & dry place, away from sun heat & fire.

Health & Safety Precautions

- Use rubber hand gloves & safety goggles, while using Dr Fixit Coal Tar Epoxy.
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children's.
- Do not smoke during application.
- Do not inhale.

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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