

Coal Tar Epoxy 82

TWO COMPONENT COAL TAR EPOXY COATING FOR CHEMICAL RESISTANCE

Description

Coal tar Epoxy 82 is a Coal tar Epoxy that has chemical resistance properties. It is preventing corrosion. It was used as a concrete, metal or steel structure. It is highly resistant to conditions in which the concentration of chemicals, salt, inorganic, alkaline and acids.

Coal tar Epoxy 82 is a product that contains Coal tar oil, epoxy resin and high quality curing substances, additives and solvents. It is able to hold it well, durable, long-lasting and able to apply on its.

Area of Application

- wastewater treatment plant, drainage harbor or harbor structure, cooling tower and underwater structure

Rate of Uses

* Theoretical consumption without allowance for loss.

Rate of Uses			
	Litre/ m ²	m ² /set (4.5 Litre)	m ² /set (17.5 Litre)
	Standard		
1 Coat	0.35	13	50
2 Coats	0.35	13	50
Total 2 Coats	0.70	6	25

*minimum 2 coat depending on the porosity of the surface

Thickness

Thickness (micron)			
	Standard	At Least	At Most
1 Coat	200	150	250
2 Coats	200	150	250
Total 2 Coats	400	300	500

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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.
- Always wash the surface with water to remove accumulated dust & dirt to achieve good bonding
- Remove rust scales, by wire brushing & scrapping. The best method to clean the surface is sand / grit blasting for best performance
- For new surfaces to clean oil & grease use degreasing solvents, such as turpentine or thinners
- Surface must be dry before application

2. Mixing

- Stir Part A and Part B components with the mixer speed low at (250 - 300 rpm/min) homogeneous pre-mixed
- Transfer the hardener component (part B) to base component (part A) container completely
- Stir Part A and Part B components with the mixer speed low at (250 - 300 rpm/min) approximately for 3- 5 minutes to homogeneous pre-mixed.
- Allow mixed material to mature for another 5 minutes because chemical reaction starts

3. Application

- Apply the mixed **Coal Tar Epoxy 82** by brush or spray over the prepared surface as recommend
- Coverage rate (0.70 ltr/sqm.) minimum 2 coats application.
- 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 & safety glasses to avoid contact with skin/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.
- Splashing into the eyes must be washed immediately with clean water and must see a doctor for medical advice.
- 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.

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Technical Information

Properties	Standard/Test Method	Results Tests
1.Appearance Part – A Part – B	-	Free flowing viscous liquid Free flowing clear liquid
2.Colour Part – A Part – B	-	Black Water white to pale yellow
3.Mixing ratio,	-	4 : 1 (part-A : part-B)
4.Specific gravity @ 30 °C, (Mix), gms/ml	ASTM D-3800 - 79	1.40 – 1.42
5.Viscosity @ 30 °C, Ps	-	1.4-1.8
6.Pot life @ 30 °C, Hrs	-	4 - 5
7.Tack free time @ 30 °C, hrs	-	3 - 4
8.Recoat time @ 30 °C, Hrs	-	8 - 10
9.Full curing time @ 30 °C, days	-	7
10.DFT, Microns (2 coats)	-	250 – 300
11.Flexibility, Mandrel test	ASTM D-522 - 93	No cracking of film & adhesion loss
12.Bonding / adhesion, N/mm ²	ASTM D-4541	2.0
13.Scratch resistance, for 7 kg load	ASTM D-7027 - 05	Passes
14.Water resistance, immersion – 7 days	ASTM D-870 - 02	Passes
15.Chemical resistance, 7 days immersion in dilute acid alkali & salt solutions)	ASTM C-543	Passes
16.Resistance to micro organisms	ASTM G-21	No growth observed
17.pH Value for Application	TIS. 727-2551	3-11
18.Salt spray test 400 hours	ASTM B117-19	Pass. Paint film is normal, No red rust on x-cut
19.Flashpoint	ASTM D 3278-20	38.0 °C

This Product: Coal Tar Epoxy 82 pass test method Standard TIS.727-2551.

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TWO COMPONENT COAL TAR EPOXY COATING FOR CHEMICAL RESISTANCE Packing

Products	Packing
Dr.Fixit Coal Tar Epoxy 82	17.5 lt./pail (14.5+3.5)
Dr.Fixit Coal Tar Epoxy 82	4.5 lt./pail (3.6+0.9)

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 82**
- 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

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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