

KUT TAR EPOXY COATING HS

Two Component Coal Tar Epoxy Coating System



PPC-14-0912

DESCRIPTION

KUT TAR EPOXY COATING HS is a two component polyamide cured coal tar epoxy coating system. It has fast drying & rapid hardening properties and provides flexibility to the coating system. It is available in two versions.

- 1. KUT TAR EPOXY COATING HS:** This is the standard grade and has 70% volume solids.
- 2. KUT TAR EPOXY COATING HS 90:** This is the standard grade and has 90% volume solids.
- 3. KUT TAR EPOXY COATING HS 100:** This is a 100% solids version and is specially designed for applications where superior adhesion and chemical resistance in combination with flexibility and resistance to bacterial growth is required.

USES

- For long term protection of steel and concrete substrates submerged in fresh or sea water or exposed to tidal or splash zones.
- As a lining in crude or fuel oil tanks, pipes, manholes, foundation water proofing, jetties, piers & ductings.
- As a protective coating for concrete, asbestos cement, steel pipes and non ferrous metals or waste water disposal system, sewerage treatment plants.

ADVANTAGES

- Very good adhesion to concrete and steel surfaces.
- Excellent resistance to aqueous media.
- High build film thickness in single coat application using standard airless spray equipment, brush or roller.
- Higher solids and high flash point makes the product suitable for use in confined spaces.
- Economical and cost saving as it is a primerless system.
- 100% solids version is a versatile coating system – can be applied even to green concrete.

TYPICAL PROPERTIES

- **Finish / Colour:** Semi gloss to matt / Black
- **Chemical resistance:** Cured coating is resistant to Distilled water, Effluent, Sewage, Brine, Exhaust gases, Diluted acids and alkalis, Salt Solutions (Potassium, Sodium) Marine bacteria, Barnacle growth

KUT TAR EPOXY COATING HS

- **Solids Content:** 70%

- **Mixed weight per litre:** 1.40 kg.
- **Recommended Film Thickness :**
Wet - 208 microns per coat
Dry - 125 microns per coat
- **Theoretical Coverage:** 4.80 m²/ltr.
- **Practical Coverage:** May vary depending upon surface profile, porosity, method of application, site conditions and workmanship.
- **Mixing Ratio :**
Base : Hardener 1 : 4.25 by volume.
1 : 6.2 by weight
Pot Life @ 10°C: 8 hrs
@ 25°C: 4 hrs
@ 35°C: 1.30 - 2 hrs

Drying Time:

Substrate Temp.	Touch Dry	Hard Dry	Full Cure	Overcoatable	
				Min	Max
10°C	18 hrs	48 hrs	14 days	48 hrs	14 days
20°C	12 hrs	24 hrs	7 days	24 hrs	7 days
35°C	8 hrs	18-24 hrs	5 days	16 hrs	3 days

KUT TAR EPOXY COATING HS 90

- **Volume Solids:** 90%
- **Mixed weight per litre:** 1.38 kg.
- **Recommended Film Thickness:**
Wet - 208 microns per coat
Dry - 175 microns per coat
- **Theoretical Coverage:** 5 m²/ltr/ coat
@ 175 micron dft.
- **Practical Coverage:** May vary depending upon surface profile, porosity, method of application, site conditions and workmanship.
- **Mixing Ratio:**
Base : Hardener 1 : 3.3 by volume.
1 : 4.3 by weight
Pot Life @ 25°C : 2.5 hrs
@ 350 C : 1 hr

Drying Time:

Substrate Temp.	Touch Dry	Hard Dry	Full Cure	Overcoatable	
				Min	Max
10°C	18 hrs	48 hrs	14 days	148 hrs	14 days
20°C	12 hrs	24 hrs	7 days	24 hrs	7 days
35°C	8 hrs	18-24 hrs	5 days	16 hrs	3 days



مصنع التخصصية لكيمائيات البناء
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KUT TAR EPOXY COATING HS 100

- **Volume Solids:** 100 %
- **Mixed weight per litre:** 1.39 kg.
- **Recommended Film Thickness:** 200 microns per coat
- **Theoretical Coverage:** 5 m²/ltr/ coat
@ 200 micron thickness.
- **Practical Coverage:** May vary depending upon surface profile, porosity, method of application, site conditions and workmanship.
- **Mixing Ratio :**
Base : Hardener 1 : 3.3 by volume.
1 : 4.3 by weight
- Pot Life @ 25°C : 2 hrs
@ 35°C : 1 hr

Drying Time:

Substrate Temp.	Touch Dry	Hard Dry	Full Cure	Overcoatable	
				Min	Max
10°C	18 hrs	48 hrs	14 days	148 hrs	14 days
20°C	12 hrs	24 hrs	7 days	24 hrs	7 days
35°C	8 hrs	18-24 hrs	5 days	16 hrs	3 days

INSTRUCTIONS FOR USE

Steel Substrates: All surfaces to be coated should be dry, free of any contamination and clean prior to paint application.

Oil and grease should be removed in accordance with SSPC – SP1 solvent cleaning. Abrasive blast clean new steel surfaces with SSPC – SP10 standard. SA 2 ½ Swedish Standard to remove rust millscale and corrosion products. Surface defects revealed by the blast cleaning process should be ground, filled or treated in a appropriate manner.

Concrete Substrates: All surfaces to be coated must be sound, dry, clean, free of any contamination such as grease, oil, laitence, dust etc. moisture content should not exceed 5%.

New Concrete: New concrete should normally be at least 28 days old and give a hygrometer reading not exceeding 75% RH when tested in accordance with **BS 8203** Appendix A. A dry removal of laitence by light grit blasting is preferable, but where this is not feasible treat with **KUT ACID ETCH**, followed by thorough rinsing with water and complete drying. Dust / debris should then be removed by vacuum brush.

Old Concrete: A sound clean substrate is essential to achieve maximum adhesion. Oil and grease penetration should be removed by chemical degreaser followed by light grit blasting or acid etching as for new concrete.

APPLICATION DETAILS

Application Method: Material must be properly mixed before use. Do not use thinners for diluting **KUT TAR EPOXY COATING HS 100** the 100 % solids version unless recommended by the project specification and confirmation from our Technical Department.

Airless Spray: Suitable tip range 0.53 to 0.65 mm. total output fluid pressure not less than 190 kg./cm². thinner upto 5% **KUT SOLVENT EP**.

Brush or roller: Suitably thinned or direct depending upon surface conditions and application requirements. Thinner up to 10% **KUT SOLVENT EP**.

Conventional spray: Not recommended.

LIMITATIONS

- For maximum performance application temperature should be above 10°C (50°F), will not cure adequately below 5°C.
- Will chalk in exterior exposure.
- Not suitable for tank lining for clean petrochemicals and solvents.
- Mix only in proportion shown. Stir individual components separately before thoroughly mixing together with a slow speed (300 to 500 rpm) drill fitted with a mixing paddle.

PACKAGING

KUT TAR EPOXY COATING HS	– 20 ltr. pack
KUT TAR EPOXY COATING HS 90	– 20 ltr. Pack
KUT TAR EPOXY COATING HS 100	– 20ltr. Pack
KUT SOLVENT EP	– 5 ltr. Pack

HEALTH AND SAFETY

KUT TAR EPOXY COATING HS, & KUT SOLVENT EP should not come in contact with skin or eyes or should be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier cream should therefore be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus is recommended.

If mixed resin comes in contact with skin, it must be removed before it hardens with a resin removing cream or with soap and water. **DO NOT USE SOLVENT.** Contamination of skin with any of the above component products should be removed immediately with soap and water.

Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. **DO NOT INDUCE VOMITING.**

FIRE

KUT TAR EPOXY COATING HS and **KUT SOLVENT EP** is flammable. Do not expose to naked flames or other sources of ignition. **NO SMOKING.** Containers should be tightly sealed when not in use. In the event of fire extinguish with CO₂ or foam.

Disposal: Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local regulations.

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