

DECK COAL TAR



Two component high solids coal tar epoxy resin coating system

DESCRIPTION

DECK COAL TAR is a two component amine cured coal tar epoxy. The product has excellent chemical resistance properties which makes it particularly suitable for sewage treatment plants and for aggressive environments.

DECK COAL TAR is suitable for use on concrete, steel and asphalt surfaces.

APPLICATIONS

DECK COAL TAR is designed for use in applications such as:

- Protection of concrete and steel structures submerged in sea water or exposed to tidal or splash zones.
- Waterproofing applications on concrete substrates.
- Lining of manholes, pipes, jetties, piers, ducting and foundations waterproofing.
- Sewage treatment plants.

ADVANTAGES

- Cost effective; does not require primer.
- Excellent adhesion to concrete, steel and asphalt surfaces.
- Suitable for use as a waterproof coating.
- High chemical resistance.
- Can be applied to green concrete.
- Does not support bacterial growth.

METHOD OF USE

SUBSTRATE PREPARATION

Concrete surfaces:

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by sand or grit blasting and/or water jetting. All exposed blow holes should be filled with epoxy paste using Repairing mortar.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 21/2.

TECHNICAL DATA

Colour:	Black
Mixed density:	1.10 ± 0.05
Solid content:	91 ± 2%
Bond strength:	
ASTM D4541	≥ 1.5 MPa
Pot life:	3 - 4 hr @ 25°C 1 - 2 hr @ 35°C
Re-coatable time:	24 hr @ 25°C
Within	12 hr @ 35°C
Full cure:	After 7 days @ 25°C
Water absorption:	
ASTM D570	< 0.1%
VOC:	
ASTM D2369	< 150 g/ltr

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

Add the entire content of the base to the hardener and mix for 3 minutes and until a uniform colour and consistency are achieved.

APPLICATION

Preparation

DECK COAL TAR can be applied by brush; roller and airless spray machine. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between coats.

Notes:

- The area where Deck coal Tar is applied must be protected from any contact with water for at least 30 hours after application. Otherwise discolouration may occur. Also, in closed areas where the relative humidity is very high, good ventilation is needed and precaution must be taken to insure the full cure of the material.
- Deck coal Tar must not be applied over other coatings, but can be applied on top of itself within the over coating times (mentioned above).
- For temperatures around 5°C, the unmixed material needs to be heated before the application. Heating is done by storing packs in a heated area.

CLEANING

- All tools should be cleaned immediately after application using STARKE Solvent. Hardened materials must be cleaned mechanically.

PACKAGING

- DECK COAL TAR is available in 18 kg packs.

COVERAGE

0.24 kg/m² per coat to achieve 200 microns dry film thickness. Two coats should be applied to achieve 400 microns dry film thickness.

STORAGE

DECK COAL TAR has a shelf life of 12 months from date of manufacture if stored in dry conditions at a temperature of 25°C in original unopened Packs. If these conditions are exceeded, contact STARKE-Technical Department for advice.

CHEMICAL RESISTANCE

after full cure ASTM D1308 (after 7 days immersion in the below chemicals)

Organic Acids

Acetic Acid 10%	SS
Lactic Acid 10%	SS
Oleic Acid sat.	R
Citric Acid 25%	R

Vinegar 10%	R
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Inorganic Bases

Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R

Aqueous Solutions

Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

Solvents

White Spirit	SS
Xylene	SS
Toluene	R

Oils & Fuels

Benzyl Alcohol	SS
Brake Fluid	SS
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R

Inorganic Acids

Sulphuric Acid 25%	SS
Phosphoric Acid 20%	R
Hydrochloric Acid 10%	R
Nitric Acid 10%	SS

R: Resistant**SS: Slight softening****CAUTIONS****HEALTH AND SAFETY**

Strongcoat PE1 should not come in contact with skin or eyes. Goggles, gloves and breathing apparatus with activated charcoal filters should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information, refer to the Safety Data Sheet.

FIRE

Deck coal Tar is nonflammable.

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Important note :

Starke range products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Starke endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation, opinion or information given by it.

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