

SuperCoat EPCT

Two component, Coal Tar Heavy Industry Epoxy

Product Description

SuperCoat EPCT is an insulation and coating material obtained through combination of epoxy resin and coal tar. It is flexible product that is highly resistant against aggressive effects of soil and resistant against aggressive chemicals and sulfate effects. SuperCoat EPCT is suitable for use on concrete and steel surfaces.

Areas of Application

- All concrete and steel surfaces under soil.
- Lining of pipelines, fuel tanks, manholes, base protection concretes of fuel tanks, foundation, piles, etc.
- Surfaces of concrete or steel constructions under water or at wave spill areas (pier posts and spillways, dam and regulator shutters, barges and hoys, underwater parts of vessels, bilge and ballast tanks.
- Sewage treatment plants.
- Harbors and shipyards, internal surfaces of reinforced concrete / steel pipes that carry chemical waste water and sea water, penstock pipes, and treatment facilities.



Advantages

- Anti-corrosive for protecting particularly underwater and under-soil steel surfaces.
- Excellent adhesion to concrete and steel surfaces.
- High chemical resistance.
- Resistant against water and sea water, diluted acids and alkalis, mineral oils and detergents.
- Does not support bacterial growth.
- Creates a rigid film layer; resistant against impact and friction.
- Provides highly economic use.

Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Technical Data

Property	
Color	Black
Density	~1.35 gr/cm ³ (23 °C)
Soil matter (by weight)	(%) : 73 ± 2
Viscosity	85-110 KU (1250 – 2010 mPa.s) (23 °C)
Working Temperature	+10 / +40 °C
Service Temperature	-40 / +85 °C
Mixture Life	5 -8 hours at 20 °C (variable. Depending on ambient temperature)
Waiting time between layer opening for traffic	Min 24 hours – max 48 hours at 23 °C 24 hours
Full –Dry time (20 °C max. 85% relative)	First- dry time: 4 – 6 hours Full- dry time:24 hours Full- hardening time: 9 – 10 days (drying time may vary depending on film thickness)
Consumption	Approximately 1.4 kg/m ² for 1mm of thickness. (variable, depending on roughness and permeability of the surface)
Thinning ratio	The product can be thinned depending on the application method with Thinner with a ratio of 5-10% by weight
Application Tools	Roller, brush or mechanical pulverizator.

Method of use Surface Quality

Concrete surfaces must be solid and have adequate compressive strength (minimum 15MPa) and tensile strength must be minimum 1.25MPa. Clean foreign materials such as dirt, oil, grease, coating, surface curing agents, etc. from the concrete, alum, plastered and metal surfaces. The surface should be clean and dry.

Surface Preparation

The application surface should be cleaned from loose parts, grease and other chemicals and should be crack-free, dry and clean.

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Application Condition and Limitations

Surface moisture content: moisture content <4% unit by weight.

Relative air humidity should be maximum 80%.

Surface Temperature	Minimum +5 °C, Maximum +40 °C
Ambient Temperature	Minimum +5 °C, Maximum +40 °C
Material Temperature	Minimum +5 °C, Maximum +40 °C

Mixing

Stir component A at first. Pour component B (small can) hardener into component A (large can) and mix all for about three minutes with a suitable mixer until homogeneous mixture is achieved.

Under normal conditions, it is not necessary and preferred to thin SuperCoat EPCT. However, if weather conditions are extremely harsh, Thinner can be added with a percentage of 10% or less. Add solvent after mixing main material with hardener and mix thoroughly.

Considerations

- Application of SuperCoat EPCT Should be protected from water contact for at least 24 hours.
- Early or late drying may be observed at various environments and various applications.
- Wear gas masks or ventilate the area in close areas.

Danger and Security Alerts

- Keep the production out of reach of children.
- Avoid eye and skin contact.
- Harmful to health if inhaled, swallowed or in case of contact with skin. May cause allergy when inhaled / in case of contact with skin.

Cleaning

All tools should be cleaned immediately after application using Ridge solvent. Hardened materials must be cleaned mechanically.

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General Matters

Above mentioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, can not control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased materials for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help.

Safety Information

Keep the product out of reach of children. Keep the lids of the product closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer the material safety data sheet.

Packaging

SuperCoat EPCT is available in 5 and 20 Kg (A + B components).

Storage

SuperCoat EPCT has a shelf life of 24 months from date of manufacture if stored at temperatures between 10 °C and 35 °C in original sealed packs and dry place.

Fire

SuperCoat EPCT is nonflammable.

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

Inorganic Bases

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

Organic Acids

Lactic Acid 10%	Resistant
Oleic Acid sat.	Resistant
Vinegar 10%	Resistant
Citric Acid 25%	Resistant

Inorganic Acids

Sulphuric Acid 25%	Resistant
Phosphoric Acid 20%	Resistant
Hydrochloric Acid 10%	Resistant
Nitric Acid 10%	Resistant

Solvents

White Spirit	Resistant
Toluene	Resistant
Xylene	Resistant

Aqueous Solutions

Sodium Chloride Sat	Resistant
Tap Water	Resistant
Chlorinated Water	Resistant
Dead Sea Water	Resistant

Oils & Fuels

Benzyl Alcohol	Resistant
Engine Oil	Resistant
Brake Fluid	Resistant
Diesel	Resistant
Detergents & Soaps	Resistant
Kerosene	Resistant

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