

General Description:

EPOXY COAL TAR # 100 is a solvent containing tar extended epoxy, formulated to resist water absorption, mild acids, alkali, solvents and anti-corrosion properties. It gives excellent adhesion and waterproofing protection of concrete, steel exposed to corrosive atmosphere.

Major Uses:

- Pipelines (interior and exterior)
- Processing Equipment.
- Tidal zone areas (fresh and salt water)
- Sewage tanks.
- Cast iron manhole cover

Advantages:

- Flexible
- Chemical resistant
- Abrasion resistant
- Impact resistant
- Resistant to dimensional changes (No chipping, peeling or flaking)

Characteristics and Physical Properties:

Colour	Black / Dark brown
Specific gravity	1.35 kg/L (mix)
Mixing ratio	4 : 1
Volume solids	70%
Pot life @ 25°C	30 mins
Application	Brush, roller, spray
Drying time:	
Dust free	5 – 6 hours
Initial hardness	8 – 10 hours
Fully cured	7 days
DFT	100 – 150 microns
Coverage	5 - 7m ² /L
Thinner	Thinner # 135

Concrete:

Surface must be structurally sound, clean dry and free from foreign matter. Remove curing compounds form oil, salts, laitance and other contaminants. Wash with multi – etch solution and thoroughly rinse with water. Concrete should be clean and dry before coating.

Steel:

Surface should be sandblasted to a commercial grade. When the surfaces are to be subjected to severe conditions, blasting to a near white grade is recommended.

Cast iron:

Surface to be coated must be free from oil, grease and other contaminants. It is preferable cleaned by wire brushing to remove mill scale and other impurities prior to application.

Mixing and Application:

EPOXY COAL TAR # 100 can be applied by brush, roller, airless, or conventional spray. Airless spray is preferable since pin holing and overspray are minimized. For best results, use two (2) coats 100 microns each coat. The first coat should be tack free before the second coat is applied. Tack free increases with thicker films. In any event, not more than 24 hours should be allowed between coats. Overcoating interval must be 3 – 5 days maximum. The minimum application temperature is 5°C and the relative humidity should not exceed 85%.

All surfaces should be treated with at least two coats of Epoxy Coal Tar # 100.

The first coat should be applied by brush or airless spray to achieve a uniform coating with a wet film thickness not less than 200 microns.

This coat should be allowed to dry for 16 hours at 20°C. When using airless spray equipment; details as mentioned should be strictly followed.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

MAS PAINTS & CHEMICAL INDUSTRY

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Management System
ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007



If necessary, EPOXY COAL TAR # 100 can be thinned with no more than 5 percent of Epoxy thinner or commercial thinners such as xylene.

Damp-proof membranes, vertical vapour barriers

Apply a full coat of Epoxy Coal Tar # 100 and allow to dry. Average coating rate should be at least 6 m² per litre. Apply a second coat at right angles to the first coat. If a thicker film is required, the second coat should be applied with dense material.

Water Tank and Pipeline Protection

Two (2) coats of Epoxy Coal Tar # 100 should be applied. Where necessary the coating can be thickened at floor/wall corners by forming 20x20 mm fillet of the material onto the first coat and liberally coating with a second coat.

Concrete screed or renders

Where it is necessary to cover the membrane with a screed or render, clean 2 mm grit nominal size of silica should be broadcast into the wet second coat to provide a proper anchorage. All loose grit should be removed prior to placing the screed/render.

Cast Iron Manhole cover

Apply 1 – 2 coats of Epoxy Coal Tar # 100 by brush, roller or airless spray with a required dry film thickness. If necessary, adjust the viscosity by adding Epoxy Thinner # 135 depending on the method of application.

Method of Application:

Brush, roller, airless and conventional spray	
Spray Data	
Conventional Spray	
Nozzle orifice	2 – 3 mm.
Nozzle pressure	43 – 57 psi
Dilution	5 – 10%
Thinner	Thinner # 135

Airless	
Nozzle orifice	0.38 – 0.46 mm
Nozzle pressure	1138 - 1710 psi
Dilution	0 – 5%
Thinner	Thinner # 135

Limitations:

Epoxy Coal Tar # 100 is formulated for application to clean, sound concrete and steel. It should not be applied over existing coatings. Application should not be undertaken if the temperature is below than prescribed and the prevailing relative humidity exceeds 90%.

Epoxy Coal Tar is not colour stable when exposed to direct sunlight, nor when in contact with some chemicals.

Storage:

EPOXY COAL TAR # 100 should be kept in cool place below 25°C. Shelf life of 12 months minimum in a tightly close container. Store under normal conditions in the original unopened containers away from direct sources of heat or naked flames.

Cleaning of Tools:

All tools should be cleaned with Wash Thinner or Epoxy Thinner # 135 as soon as possible.

Packing:

Available in 4 lit. set and 20 lit. set.

Physiological Hazards:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes from the skin immediately, using warm water and soap. Avoid inhaling vapour.

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