



NATIONAL GUARD COAL TAR EPOXY
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL GUARD COAL TAR EPOXY

PRODUCT DESCRIPTION	A two pack polyamide cured general purpose high build coal tar epoxy, having relatively long pot life at elevated temperatures. It is suitable for coating on steel and concrete structures and has very good corrosion resistance. It is also resistant to chemically polluted water. It has good abrasion resistance and good adhesion.
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RECOMMENDED USES	It is suitable for many critical applications like underwater areas, cargo tanks, bilges, sewage disposal plants, tidal, splash zones, for long life protection of steel and concrete structures.
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TECHNICAL DATA

COLOUR, DRY FILM	Black & Brown
FINISH, DRY FILM	Smooth / Semi-gloss
VOLUME SOLIDS (ASTM D2697)	72 ± 2%
SPECIFIC GRAVITY	1.30 ± 0.05 (of mix)
THEORETICAL SPREADING RANGE	7.2 – 3.6 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	100 – 200 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	140 – 278 Microns/Coat
FLASH POINT	> 25°C
FLEXIBILITY	Good
CHEMICAL RESISTANCE	Good (slight discolouration maybe possible)
WATER RESISTANCE	Excellent
ABRASION RESISTANCE	Good
CORROSION RESISTANCE	Good

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	7 hours
*DRY TO RECOAT / OVERCOAT	12 hours (minimum) – 48 hours (maximum)
FULLY CURED	7 days

*With the same generic type paint.



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ADVANTAGES

NATIONAL GUARD COAL TAR EPOXY	The fully cured film is highly resistant to crude oil, sea water, fuel oil. It has excellent adhesion and good abrasion resistance properties, very good corrosion resistance.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	All surfaces should be clean, dry and free from contamination. For bare steel abrasive blast cleaning to Sa3 is recommended. Power tool cleaning for small area preparation, maybe acceptable to St. 2, depending on exposure conditions. Clean, dry and undamaged shop primed surfaces are necessary requirements to apply over shop primed metal. For coated surfaces, clean, dry and undamaged compatible primer coat is necessary for further painting.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray	Brush (touch-up)
CLEANING/THINNING	National Epoxy Thinner (thinner should only be added after mixing the components)	
THINNER (VOLUME)	5 – 10%	10%
AIRLESS SPRAY REQUIREMENTS	2200 psi	
NOZZLE SIZE	0.020” – 0.025”	
MIXING RATIO (BY VOLUME)	Base : Hardener 4 : 1 (Mix thoroughly, keep for 10 – 15 minutes before use)	
POT LIFE @ 30°C (100 ml)	6 hours (reduced at higher temperature) Note: Material may gel at elevated temperature.	

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface. Application temperature and surface temperature between 8°C-35°C, moisture less than 4%, mix the material in the required ratio at the time of application.	No. of Coats x DFT (Microns)	
	National Guard Coal Tar Epoxy	: 2 x 150
	(To be applied on suitably primed surface)	



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ADDITIONAL DATA

SHELF LIFE @ 30°C	18 months, in original sealed container, with proper storage conditions.
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HEALTH & SAFETY

SAFETY PRECAUTIONS	<p>As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and air mask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable air mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.</p> <p>This as industrial product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed.</p>
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STORAGE & HANDLING

STORAGE	<p>Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Do not stock paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.</p>
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NOTE: We warranty only the quality of our product and this data sheet is based on results obtained from experience and tests. We reserve the right to change data without prior notice. For surface preparation, safety details refer specifier and safety data.

This data sheet supersedes all previous issued.
 Issued: 0608

