



NATIONAL GUARD COAL TAR EPOXY S.F.
DECORATIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL GUARD COAL TAR EPOXY S.F.

| | |
|----------------------------|---|
| PRODUCT DESCRIPTION | A two pack polyamide cured high solid coal tar epoxy coating for the protection of pipes, storage tanks, containers, structural steel and fibre reinforced cement against sewage water, sea water and various chemicals. It is fast curing coating especially when applied to preheated substrates. It has good abrasion resistance and excellent adhesion to various substrates. |
|----------------------------|---|

| | |
|-------------------------|--|
| RECOMMENDED USES | Underwater areas, in cargo tanks, sewage disposal plants, tidal and splash zones etc. Long life protection of steel and concrete in severely corrosive marine and industrial environment applications. |
|-------------------------|--|

TECHNICAL DATA

| | |
|---|--|
| COLOUR, DRY FILM | Black & Brown |
| FINISH, DRY FILM | Smooth / Semi-gloss |
| VOLUME SOLIDS (ASTM D2697) | 96 ± 2% |
| SPECIFIC GRAVITY | 1.46 ± 0.05 (of mix) |
| THEORETICAL SPREADING RANGE | 3.2 – 2.4 M ² /LTR |
| RECOMMENDED DFT RANGE (DRY FILM THICKNESS) | 300 – 400 Microns/Coat |
| RECOMMENDED WFT RANGE (WET FILM THICKNESS) | 312 – 418 Microns/Coat |
| FLASH POINT | 25°C |
| FLEXIBILITY | Good |
| CHEMICAL RESISTANCE | Good (slight discolouration may be possible) |
| WATER RESISTANCE | Excellent |
| ABRASION RESISTANCE | Good |
| CORROSION RESISTANCE | Very good |

DRYING TIME

| | |
|--|---|
| Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.) | |
| TOUCH DRY | 6 hours |
| *DRY TO RECOAT / OVERCOAT | 12 hours (minimum) – 48 hours (maximum) |
| HARD DRY | 7 days |

*With the same generic type paint.



**NATIONAL GUARD COAL TAR EPOXY S.F.
DECORATIVE COATINGS**

TECHNICAL DATA SHEET

ADVANTAGES

| | |
|---|---|
| NATIONAL GUARD COAL TAR EPOXY S.F. | The fully cured film is resistant to fuel, oil, crude oil, sea water. It has excellent adhesion and good abrasion resistance, very good corrosion resistance. |
|---|---|

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, may be acceptable to St2, depending on exposure conditions. Clean, dry and undamaged shop primed surfaces are necessary requirements to paint over shop primed metal. For coated surfaces, clean, dry and undamaged compatible primer coat is necessary for further painting. |
|----------------------------|---|

APPLICATION DATA

| | | |
|-----------------------------------|--|-------|
| APPLICATION METHOD | Airless Spray | Brush |
| CLEANING/THINNING | National Epoxy Thinner (thinner should only be added after mixing components) | |
| THINNER (VOLUME) | 5 – 10% | 10% |
| AIRLESS SPRAY REQUIREMENTS | 3000 psi | |
| NOZZLE SIZE | 0.025” – 0.028” | |
| MIXING RATIO (BY VOLUME) | Base : Hardener 3 : 1 (Mix thoroughly, keep for 15 – 20 minutes before use) | |
| POT LIFE @ 30°C (100 ml) | 4 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 S.F. | : 1 x 300 |
| | (To be applied on suitably primed surface) | |

ADDITIONAL DATA

| | |
|--------------------------|--|
| SHELF LIFE @ 30°C | 18 months, in original sealed container, with proper storage conditions. |
|--------------------------|--|



NATIONAL GUARD COAL TAR EPOXY S.F.
DECORATIVE COATINGS

TECHNICAL DATA SHEET

HEALTH & SAFETY

| | |
|----------------------------------|--|
| <p>SAFETY PRECAUTIONS</p> | <p>As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and airmask 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 airmask. 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> |
|----------------------------------|--|

STORAGE & HANDLING

| | |
|-----------------------|---|
| <p>STORAGE</p> | <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> |
|-----------------------|---|

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

