
HI-PERFORMANCE MIO COAL TAR EPOXY POLYAMIDE

Parsitar 4224A

DESCRIPTION

- * Two component amide adduct cured epoxy coating which is enriched with highly fractionated coal tar pitch and a synergetic lamellar pigment. like MIO. The high action of these two barrier factors maximize the performance. In a paint systems with suitable thicknesses it meets IPS-M-TP190 tests criteria of performances .

USES

- * It is used as intermediate and top coat for primed surface in critical & severe atmospheric & immersion conditions .
- * It can be directly applied on prepared bare steel which is protected by cathodic protection facilities.
- * It can be used for buried metal surfaces such as piping.
- * Tank lining of process water and oil products reservoirs.
- * For protecting concrete structures.
- * Internal lining of fire fighting tank.

FEATURES

- * Yield thick films (up to 200 mic) in a single coat .
- * Excellent barrier to weather and humidity .
- * Good immersion resistance to oil products and aliphatic solvents .
- * Synergetic barrier effect of coal tar with lamellar pigment .
- * Excellent resistance to cathodic disbanding effect .
- * Good resistance to spillages of diluted acids & bases .

TECHNICAL DATA

| | |
|--|-------------------------------|
| Finish | Semi - gloss (becomes flat) |
| Colour | Black |
| Specific gravity (at 20 °C , Mix) | 1.4 ± 0.05 (gr/cc) |
| Volume solid | 62 ± 2 % |
| Recommended DFT | 300 -600 (mic) ¹ |
| Flash point | 35 °C |
| Shelf life (at 20 °C) | 12 months |
| Package | 20 Liters, others on request |

¹ In order to prevent pin holing, it is recommended to apply coal tars in multi layers . See note F

SURFACE PREPARATION

- 1 - On an epoxy primer , remove any oil , grease , dirt & moisture .
- 2 - When applying direct to metal, blast up to a SA 2 1/2 with a preferably high surface roughness .

RECOMMENDED PAINT SYSTEMS

| | | |
|--------------------------|--------------------|--------|
| P : 4424 (recommended) | 60 - 80 | micron |
| I & T : 4224A | 2 to 3 x (150-200) | micron |



HI-PERFORMANCE MIO COAL TAR EPOXY POLYAMIDE

Parsitar 4224A

APPLICATION DATA

| | | | |
|------------------------|--|---|--|
| Method | Air / Airless spray , Brush (just for inaccessible area or touch up) | | |
| Thinner / Cleaner | T-404 | | |
| Mixing ratio by weight | 100 : 11 | Base : 20 kg + Hardener : 2.2 kg | |
| Pot life (at 20 °C) | 8 hrs | | |

- Different thinner with different suffix maybe offered in hot and cold seasons.

Theoretical Coverage :

| | | | |
|-----------------------------------|------|------|------|
| Dry film thickness (mic) | 150 | 300 | 600 |
| Coverage (m ² / lit) | 4.13 | 2.07 | 1.03 |
| Coverage (m ² / kg) | 2.95 | 1.48 | 0.74 |

| | |
|---------------------------------|--------|
| Touch dry (150 mic , 20 °C) | 6 hrs |
| Fully Cured (150 mic , 20 °C) | 7 days |

- At higher dry film thickness, lower temperature and poor ventilation drying time will be longer.
- Application in closed area results in long touch & tack drying time and therefore longer minimum intervals. So sufficient air draft is required for maintaining normal application condition.

Recoating interval :

| Surface temperature | 10°C | 20°C | 30°C | 40°C |
|------------------------|------|------|------|----------|
| Min. Interval (days) | 5 | 3 | 2 | 16 (hrs) |
| Max. Interval (days) | 6 | 5 | 3 | 1 |

- It is highly recommended to meet recoating interval times strictly. To get the strong intercoat adhesion in hot weather (more than 30°C) or direct sunlight , recoating should be done maximum within 24 hours or less. **See note G**

APPLICATION INSTRUCTIONS

- * Check all equipments are dust, oil and moisture free. If needed , flush with cleaner thinner.
- * It is recommended to use the paint with the temperature above 15°C, otherwise more thinner would be required to reach the application viscosity. Too much thinner may results in sagging, and low thickness . In cold seasons it is recommended to keep the paint at a warmed up storage at least 3 days before use.
- * Stir the paint well by a forced mixer before use and add the entire hardener to it and mix it again up to get a homogenous mixture.
- * Thin the paint with defined thinner depend on required thickness & application viscosity.
- * Stirring the material in low speed during painting is necessary . **See note H**

The given data could be adjusted by applicator in practical situation by his own actual trial.

| | Pressure (atm) | Orifice | Tip Range | Thinner (vol%) |
|----------------|---------------------------------|-------------|-----------|----------------|
| Air spray | 3 - 4 | 1.3 - 3 mm | | 10 - 25 |
| Air less | 6 - 7 | 19 - 23 mic | 219 -323 | 5 - 15 |
| Brush / Roller | Suitable for small areas only . | | | |

SURFACE TEMPERATURE

Must be at least 3°C above dew point, apply the coats when surface temperature is from 10°C to 40°C. Please consult Parsifam if the substrate temperature is lower or higher.

SAFETY

- ▲ Due to high flammability , keep away the paints from heat , sparks and flames.
- ▲ Avoid contact the paints with eyes and skin.
- ▲ Use mask and gloves and provide suitable ventilation for the reasons of health and safety.

REMARKS : The information submitted in this data sheet is based on our best current knowledge and experience. The ultimate performance of this coating is quite related to performance of surface preparation, application procedure and conditions that limits our liability to the figures of submitted technical and application data .