
HIGH SOLID COAL TAR EPOXY POLYAMIDE

(Based on IPS - M - TP190)

Parsitar 4223AN

DESCRIPTION

* Two component polyamide/amine cured coal tar epoxy based on selected epoxies and highly fractionated coal tar pitch. It perfectly meets the standard of IPS -M -TP190 and most requirements of other standards like ISIRI and basic paint selection tables.

USES

- * Recommended multi layers coal tar epoxy in paint systems 7J , 7K , & 7L in group 7of IPS-E-TP100
- * Internal coating of fire fighting , process water, saline and etc.
- * As a highly effective coating for the underneath bottom of tanks.
- * Internal coating of oil & oil derivative tanks including gasoline, gas oil, kerosene, mazzut ,...
- * As a direct coat for pipe lines and facilities which are protected by external cathodic protection

FEATURES

- * Effective barrier to water and humidity and corrosive factors
- * Good resistance to spillages of oil products and aliphatic solvents
- * A good selection to coat the underneath surfaces of tanks' bottoms , if needed.
- * Good resistance to spillages of diluted acid & alkalis
- * Due to high volume solid and low density , it has high coverage and low consumption.
- * In out door condition, polyurethane over coating on coal tar is recommended
- * In tank lining, when temperature is not more than 50 °C and external cathodic protection is not applied ,application of a zinc rich primer is recommended

TECHNICAL DATA

Finish	Semi-gloss
Colour	Black , Brown
Specific gravity (at 20 °C , Mix)	1.40 ± 0.05 (gr/cc)
Volume solid	73 ± 2 %
Recommended DFT(depends on paint system)	200 - 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 notes F & G

SURFACE PREPARATION

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

RECOMMENDED PAINT SYSTEMS

P : 4424 (optional)		60 - 80	micron
P & I & T: 4223AN	2 to 3 × (100-200)	200-600	micron

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APPLICATION DATA

Method	Air / Airless spray , Brush (just for inaccessible area or touch up)		
Thinner / Cleaner	T-404		
Mixing ratio by weight	100 : 15	Base : 20 kg	Hardener : 3 kg
Pot life (at 20 °C)	6 hrs		

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

Theoretical Coverage :

Dry film thickness (mic)	200	300	450	600
Coverage (m ² / lit)	3.65	2.43	1.62	1.22
Coverage (m ² / kg)	2.61	1.74	1.59	0.87

Touch dry (150 mic , 20 °C)	4 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 (hrs)	48	24	16	12
Max. Interval (days)	4	3	2	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, low thickness and poor hiding. In cold seasons it is recommended to keep the paint at a warming 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.

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		5 - 20
Air less	6 - 7	19 - 23 mic	219 -323	5 - 10
Brush / Roller	Suitable for small areas only .			

SURFACE TEMPERATURE SAFETY

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.

- ▲ 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 .