
HEAT RESISTANCE EPOXY POLYAMIDE MIOX INTERMEDIATE

Parsiphen 4211PH

DESCRIPTION

- * Two component heat resistance intermediate epoxy with a well selected epoxy resins and special hardeners to cope high temperatures and harsh tensions at hot surfaces.
- * It is formulated with well balanced ratio of pure special resins and hardeners & high grade micaceous iron oxide lamellar pigments made by an well known Austrian manufacturer .

USES

- * As a high build intermediate to provide excellent barrier protection in high performance anti-corrosive coating systems . It is highly alkaline resistance , so can protect effectively zinc rich primers in harsh chemical environments .
- Due to use of special epoxy resins it can deal with high temperatures and harsh tensions at hot surfaces .

FEATURES

- * Pigmented with lamellar micaceous iron oxide (MIOX) .
- * High imbrications of pigment flakes .
- * Excellent adhesion to zinc rich primers.
- * Heat resistance up to 160 °C in suitable paint system
- * Excellent diffusion prohibition of corrosive compounds .
- * Long term recoating properties .
- * Good resistance to spillages of diluted inorganic acids and bases .

TECHNICAL DATA

Finish	Flat
Colour	Grey
Specific gravity (at 20 °C , Mix)	1.59 ± 0.05 (gr/cc)
Volume solid	55 ± 2 %
Recommended DFT	100 - 200 (mic)
Heat Resistance	Continuous 150 °C
	Non- Continuous 160 °C
Flash point	35 °C
Shelf life (at 20 °C)	12 months
Package	20 Liters, others on request

SURFACE PREPARATION

- 1 - The primed or previous layer should be quite free of any oil, grease, dirt, dust and moisture. Zinc primer should be free from any zinc salts.
- 2 - Pay attention to maximum recoating interval of previous layer .

RECOMMENDED PAINT SYSTEMS

P : 4424PH ,7411 ¹	60 - 80	micron
I : 4211PH	100 - 200	micron
T : 4391PH	80 - 100	micron

- ¹ See note J when selecting or using zinc ethyl silicate .
7411 needs 4252 as tie-coat or a thin mist coat of intermediate layer like 4211PH before applying main specified thickness of intermediate.

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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 : 14.28	Package : Base 22 kg + Hardener : 3 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)	100	150	200
Coverage (m ² / lit)	5.50	3.67	2.75
Coverage (m ² / kg)	3.46	2.31	1.73

Touch dry (100 mic , 20 °C)	1.5 hr
Fully Cured (100 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
Min. Interval (hrs)	24	20	16
Max. Interval (days)	7	6	5

- The maximum recoating times are for reaching the maximum chemically intercoat adhesion, but it is possible to reach a reasonable adhesion even up to few months . **See note E**

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 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		5 - 20
Air less	6 - 7	19 - 23 mic	219 -323	5 - 10
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 .