HI-PERFORMANCE POLYURETHANE TOP COAT
(Based On IPS-M-TP235)

Parsithane 6591

DESCRIPTION

* Hi -performance acrylic polyurethane topcoat formulated with a selected professional acrylic polyols, high grade UV resistance pigments and aliphatic polyisocyanate hardeners. It meets performance and technical requirements of IPS-M-TP 235.

USES

* It is recommended as a versatile finish coat on a variety of anti-corrosive paint systems which are serving in different environments including moderate to severe industrial, chemical zones and as well as coastal & offshore steel structures .
* As a well experienced and all round topcoat for atmospheric uses in IPS-E-100, Table 7, instead of epoxy topcoat .
* As a top coat layer in multi-layer anti-corrosive paint systems for atmospheric application such as ISO 12944-5, IPS , TOTAL , POGC & SPGC systems.
* It can be used for refurbishing of old and aged polyurethanes.(In this case please consult us)

FEATURES

* Outstanding resistance in marine atmosphere.
* High hardness .
* Excellent gloss & colour retention (Approved by Institute for Colour Science and Technology)
* Excellent light fastness .
* Excellent weather resistance .
* Excellent resistance in chemical environments .
* Good resistance to weak acids and alkalis .
* Long term durability .

TECHNICAL DATA

Finish	Gloss[1]
Colour	Wide range of colours available[1]
Specific gravity (at 20 °C , Mix)	1.5 ± 0.05(gr/cc)
Volume solid	54 ± 2 %
Recommended Thickness (DFT)	50 - 100 (mic)
Flash point	35 °C
Shelf life (at 20 °C)	12 months
Package	20 Liters, others on request

[1] **Technical data might be changed in some colored paints.**

[1] **The RAL number comes after code. For example the code of white polyurethane top coat with RAL 9010 is 6591-9010. Only code for silver colour (~RAL 9006) is 6599CC .**

SURFACE PREPARATION

1 - Remove any oil , dirt , dust & moisture from last coat .

RECOMMENDED PAINT SYSTEMS

A : New Structures

P :	7411[2], 4424 (all series) , 4433	**OR**	60 - 80 micron
	4142 IT, 4143 (all series)		70 - 100 micron
I :	4211(all series) , 4204 (all series) 4205ZP, 4212		100 - 200 micron
T : 6591			50 - 80 micron

B : On aged Epoxy Intermediate

T : 6591T1	50 - 80 micron

[2] **See note J when selecting or using zinc ethyl silicate .**
7411 needs 4252 as tie-coat or a thin mist coat of intermediate layer 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 - 608	
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)	50	70	80
Coverage (m² / lit)	10.8	7.71	6.75
Coverage (m² / kg)	7.20	5.14	4.5

Touch dry	(50 mic , 20 °C)	1	hr
Fully Cured	(50 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)	36	24	12
Max. Interval (days)	7	5	3

- The maximum recoating times are for reaching the maximum chemically intercoat adhesion, but it is possible to reach a reasonable adhesion even up to one month .**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.
* insufficient manual mixing may lead to coating film defects .
* 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 - 25
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 .

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