

SPECIAL POLYURETHANE TOP COAT FOR APPLYING ON AGED(OLD) PAINTS (Based on IPS - M - TP235)

Parsithane 6591T1

DESCRIPTION

* Two component acrylic polyurethane finish coat based on a professional selection of acrylic polyols and aliphatic poly isocyanate hardeners which is designed based on IPS-M-TP235. It could be applied on epoxy intermediate which their recoating interval times are passed over a long time and aging is occurred .

USES

* It is used as finish coat in a variety of anti-corrosive paint systems which are serving in different environments including moderate to severe industrial and chemical zones specially in oil production facilities.
* it is specially designed to have a reasonable adhesion on old /aged epoxy and polyurethane paints. In this case patch coat test is recommended .

FEATURES

- * Outstanding seawater resistance.
- * High hardness .
- * Excellent gloss & colour retention .
- * Excellent light fastness .
- * Good weather resistance .
- * Excellent resistance in chemical environments .
- * Good resistance to weak acids and alkalis .

TECHNICAL DATA

| | |
|--|------------------------------|
| Finish | Gloss ¹ |
| Colour | White, Colored ¹ |
| Specific gravity (at 20 °C , Mix) | 1.5 ± 0.05 (gr/cc) |
| Volume solid | 54 ± 2 % |
| Recommended DFT | 50 - 100 (mic) |
| Flash point | 35 °C |
| Shelf life (at 20 °C) | 12 months |
| Package | 20 Liters, others on request |

¹ Technical data and code might be changed in 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 .
- 2- When last coat is aged , sanding or sweep blasting to provide roughness is necessary .

RECOMMENDED PAINT SYSTEMS

| | | |
|--------------------------------------|-----------|--------|
| P : 4424(series) , 7411 ² | 70 - 100 | micron |
| I : 4204(series), 4211(series) | 100 - 200 | micron |
| 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 (m ² / lit) | 10.80 | 7.71 | 6.75 |
| Coverage (m ² / kg) | 7.20 | 5.14 | 4.50 |

| | | |
|--------------------------------|---|------|
| 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.
- * 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 .