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# HEAT RESISTANCE MODIFIED AL.SILICONE UP TO 400 °C

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## Parsitherm 7094

### DESCRIPTION

\* Heat resistance coating formulated with modified silicone resin and aluminum flake pigment .

### USES

- \* Hot surfaces of stacks and exhausts.
- \* Hot pipelines .
- \* Top coat for zinc ethyl silicate .

### FEATURES

- \* Tack dry in room temperature.
- \* Don't apply more than 25 microns.
- \* Heat resistance up to 400°C (750°F) .
- \* Resistance to thermal shocks.
- \* Good weathering and corrosion resistance.
- \* When it is used with zinc rich ethyl silicate in a paint system , maximum continuous heat resistance is near to 400 °C , but temperature surging to 450 °C is possible .

### TECHNICAL DATA

|                                     |                              |
|-------------------------------------|------------------------------|
| <b>Finish</b>                       | Flat                         |
| <b>Colour</b>                       | Silver                       |
| <b>Specific gravity ( at 20 C )</b> | 1.12 ± 0.05 ( gr/cc )        |
| <b>Volume solid</b>                 | 30 ± 2 %                     |
| <b>Recommended DFT</b>              | 20 - 25 ( mic ) <sup>1</sup> |
| <b>Heat resistance</b>              | Max. 400 °C                  |
| <b>Flash point</b>                  | 35 °C                        |
| <b>Shelf life ( at 20° C )</b>      | 12 months                    |
| <b>Package</b>                      | 20 Liters, others on request |

<sup>1</sup> See note B

### SURFACE PREPARATION

- 1 - As a single coat should be blast up to SA 2½.
- 2 - As a top coat for zinc rich ethyl silicate , please remove any zinc salt , dust, grease moisture and other contaminations .

### RECOMMENDED PAINT SYSTEMS

|                                  |         |        |
|----------------------------------|---------|--------|
| P : 7411 <sup>2</sup> (optional) | 60 - 80 | micron |
| T : 7094A <sup>3</sup>           | 20 - 25 | micron |

<sup>2</sup> See note J when selecting or using zinc ethyl silicate .  
To ensure fully cured stage of ethyl silicate primer before recoating by 7094 . It is better to have a solvent rubbing test with MEK .

<sup>3</sup> It should not be applied thicker than 20-25 microns .

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### APPLICATION DATA

Method Air / Airless spray , Brush (just for inaccessible area or touch up)  
Thinner / Cleaner T - 710 **Package : 15 kg**

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

#### Theoretical Coverage :

|                                   |       |       |       |
|-----------------------------------|-------|-------|-------|
| Dry film thickness (mic)          | 20    | 22    | 25    |
| Coverage ( m <sup>2</sup> / lit ) | 15    | 13.64 | 12    |
| Coverage ( m <sup>2</sup> / kg )  | 13.39 | 12.18 | 10.71 |

Touch dry ( 20 mic , 20 °C ) 1 hr  
Tack dry ( 20 mic , 20 °C ) 10 hrs

- Fully cured can be reached after being in the service in the specified temperature .

### 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 power mixer to a homogenous stick mixture before use.
- \* Thin the paint with defined thinner depend on required thickness & application viscosity then mix it again.
- \* Apply the paint not more than allowed thickness range .

#### 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  |           | 40 - 50        |
| Air less       | 5 - 7                           | 19 - 23 mic | 219 -323  | 25 - 35        |
| 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 contact 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 good ventilation for the reasons of health and safety.
- ▲ Apply suitable ventilation to maintain enough fresh air.

**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 .