

Technical Data Sheet: Ref: TDS-HPC-0001-V02

Date of issue: June 2017

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## A628-3001

### PURE SILICONE HIGH TEMPRETURE COATING

<b>GENERIC TYPE</b>	Heat Resistant																				
<b>DESCRIPTION</b>	A628-3001 is a heat resistant, aluminum pigmented coating, based on pure silicone resin up to 600 °c.																				
<b>RECOMMENDED USE</b>	For long-term protection of smoke stacks, exhaust pipes, hot pipe lines and other hot surfaces Up to 600 °c is used.																				
<b>FEATURE</b>	<ul style="list-style-type: none"> <li>-High temperature resistance-Good spray ability</li> <li>-Rust preventing</li> <li>-Excellent spray ability</li> </ul>																				
<b>PHYSICAL PROPERTIES</b>	<table border="1"> <tr> <td>Finish</td> <td>Shiny</td> </tr> <tr> <td>Color</td> <td>Aluminum</td> </tr> <tr> <td>Solid by volume</td> <td>37±5%</td> </tr> <tr> <td>Specific Gravity</td> <td>1.05±0.1 gr/cm3</td> </tr> <tr> <td>Flash point</td> <td>27 °c</td> </tr> <tr> <td>Recommended D.F.T.</td> <td>15-20 Microns per one coat</td> </tr> <tr> <td>Theoretical coverage</td> <td>28-16 m<sup>2</sup> /Lit</td> </tr> <tr> <td></td> <td>Practical coverage depends on loss factor</td> </tr> <tr> <td>Fully cured</td> <td>After thermal curing at 200 °c for at least one hour</td> </tr> <tr> <td>Thermal resistance</td> <td>Max. 600 °c (dry exposure) Non-Continuous Max. 650 °c</td> </tr> </table>	Finish	Shiny	Color	Aluminum	Solid by volume	37±5%	Specific Gravity	1.05±0.1 gr/cm3	Flash point	27 °c	Recommended D.F.T.	15-20 Microns per one coat	Theoretical coverage	28-16 m <sup>2</sup> /Lit		Practical coverage depends on loss factor	Fully cured	After thermal curing at 200 °c for at least one hour	Thermal resistance	Max. 600 °c (dry exposure) Non-Continuous Max. 650 °c
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## APPLICATION

Application method	Air/Airless spray, Brush, Roller
Surface temperature	10-40 °c
Mixing ratio	Single pack
Packaging	20 KG – 4 KG
Thinner/cleaner	A840-0628
Pot Life	N/A
Recoat interval	Min 1 hrs. at 200° c Max indefinite Recoating intervals related to later conditions of exposure
Nozzle orifice	0.018"-0.021"
Nozzle pressure	128 bar/1800 psi Airless spray is indicative and subject to adjustment
Application condition	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

## SURFACE PREPARATION

- All surfaces to be coated should be completely clean, dry and free from contamination. Surface preparation method shall be in accordance with ISO 8504: 2000.
- Remove salt and other water-soluble contaminants by fresh water.
- Remove oil and grease with suitable detergent or solvent (SSPC-SP-1).
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2 or SSPC SP-10).

## SAFETY PRECAUTIONS

Detail information is given on Material Safety Data Sheet (MSDS). Avoid inhalation of spray mist or vapor. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention. Since this product contains flammable solvents, keep away from sparks and open flames. Application and handling of this product should be in compliance with relevant national regulations.

## GENERAL REMARKS

- For high temperature service, A628-3001 requires heat curing at 200°C (392°F) to give optimum crosslinking and fully develop film properties such as hardness.
- The maximum DFT which should be applied before heating is 20 microns (0.6 mils) otherwise blistering will occur. Two or more coats cannot be applied without heating between coats.
- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- For satisfactory cure, air and surface temperature must be above 10 °C.
- The surface profile should be less than 12 microns.

## STORAGE

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

## SHELF LIFE

6 months from date of production

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