**PRODUCT DATA SHEET**

**DerCoat® - 2800**

Modified Silicone High Temperature

**GENERIC TYPE:**
Single package, modified silicone

**DESCRIPTION:** DerCoat-2800 is for use as a high performance finish for stainless steel surfaces in service from 300°F (149°C) to 800°F (426°C) with excellent resistance to thermal shock. DerCoat-2800 is typically used to prevent chloride stress cracking in service under insulation. For use over carbon steel, DerCoat-2800 is applied over modified silicone primers or ZinCoat®-400 HS. DerCoat-2800 is a protective coating for medium to high temperature service with good resistance to mild chemical fume environments.

**FEATURES:**
- For peak temperature up to 1000°F (538°C) and operating temperatures of 750°F (399°C)
- Pure, unmodified silicone resins and thermally stable pigments.
- Will air dry at ambient.
- Resistant to severe thermal shock.

**Limitations of Use:** Allow 24 hours between coats. Bake cure at 450°F for one hour or allow to cure in operation. Operation temperature must be above 400°F (204°C). Full film properties are not obtained until heat cured. When applying over inorganic zinc, air dry for 72 hours Prior to placing in service.

**RECOMMENDED USES:**
Recommended for the protection of equipment such as stacks, breeching, furnaces, hot piping, muffles, incinerators, heat exchangers operating from ambient temperature to 750 °F (399 °C) and other elevated temperature steel surfaces in any industry, including marine. Generally used where temperature exceed 500 °F (260 °C). The use of ZinCoat®-400 HS as a prime coat prevents rusting during shutdown and/or when the coated units are exposed to moisture at temperature less than 200 °F (93 °C).

**NOT RECOMMENDED FOR:**
For immersion Service or exposure to splash and spillage of acid or alkalines. Containment of aromatic solvents or severely corrosive materials.

**PRIMER REQUIRED:**
None required. A prime coat of ZinCoat-400, however, will greatly increase service life over steel.

**ORDER INFORMATION:**
Prices may be obtained from SanyChem Sales Representative or main Office.

**APPROXIMATE SHIPPING WEIGHT:**

<table>
<thead>
<tr>
<th>Packaging</th>
<th>1 gallons</th>
<th>5 gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>DerCoat-2800</td>
<td>11.0 lbs. (5.0 kg.)</td>
<td>51.0 lbs. (23.1 kg.)</td>
</tr>
<tr>
<td>SolventSany # 260 Thinner</td>
<td>9.0 lbs. (4.1 kg.)</td>
<td>45.0 lbs. (20.4 kg.)</td>
</tr>
</tbody>
</table>

**FLASH POINT (Pensky/Martens Closed Cup):**

<table>
<thead>
<tr>
<th>DerCoat-2800</th>
<th>Flash Point</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20 °C</td>
</tr>
<tr>
<td>SolventSany # 260 Thinner</td>
<td>28 °C</td>
</tr>
</tbody>
</table>

**Topcoat Required:**
None. Please consult the appropriate system guide, the particular job specification or your SanyChem Coatings’ Industrial Coatings Specialist for proper systems using this product.

**NOTE:** A test patch is recommended to verify compatibility with existing coatings, to evaluate the adhesion to any existing coatings and the adhesion of existing coatings to the substrate.

**SPECIFICATION DATA**

- **Solids Content By Volume:** 42% ± 2%
- **Theoretical Coverage Rate per Gallon:**
  - continuous: 16.8 m² / Lit at 25 microns
  - non-continuous: 10.5 m² / Lit at 40 microns
- **Temperature Resistance (Non-immersion):**
  - Continuous: 750 °F (399 °C)
  - Non-Continuous: 1000 °F (538 °C)
- **Recommended Dry Film Thickness Per Coat:**
  - ½ mils (40 microns)
  - NOTE: Excessive thickness may cause blistering
- **Color Standard in:**
  - Aluminum and Black
- **Flexibility:**
  - Good
- **Gloss:**
  - Low
- **Abrasion Resistance:**
  - Fair
- **Substrates:**
  - Apply to properly prepared steel or over inorganic zincs.
- **Weathering:**
  - Excellent
- **Shelf Life:**
  - 24 months when stored at 75°F (25 °C)
- **Storage Conditions:**
  - Store indoors.
  - Temp.: 40 - 110 °F (4 - 43 °C)
  - Humidity: 0 - 100%

**COATINGS COMPATIBLE:**
May be applied over inorganic Zincs (ZinCoat). Excessive film thickness of DerCoat-2800 over inorganic Zincs may result in blistering and delamination when temperature is increased. Consult SanyChem Technical Service Department for specific recommendation.

**TOPCOAT REQUIRED:**
None Required.

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**CHEMICAL RESISTANCE GUIDE**

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Splash &amp; Spillage</th>
<th>Fumes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acids</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Alkalies</td>
<td>Fair</td>
<td>Excellent</td>
</tr>
<tr>
<td>Solvents</td>
<td>Poor</td>
<td>Good</td>
</tr>
<tr>
<td>Water</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Salt</td>
<td>Good</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

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January 2001 replaces April 1998

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APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be closely followed to obtain the maximum service from the materials.

Substrates & Surface Preparation

General:
Remove any oil or grease from surface to be coated with clean rags soaked in SolvenSany #252 or Surface AC Cleaner in accordance with SSPC-SP-1-62.

Steel:
New Surfaces: Steel – If used direct to steel, blast to near white metal surface cleanliness in accordance with SSPCSP10 or ISO-Sa21/2. Blast profile on steel should be 0.75 to 2 mils (19 to 50 microns) in depth and be of a sharp, jagged, nature as opposed to a "peen" pattern (from shot blasting). Surfaces must be free of grit dust. Steel surfaces may be primed with DerCoat-2100 Primer or ZincCoat-400 HS (inorganic zinc Primers). Coating should be applied to cleaned surfaces as soon as possible to prevent rerusting or contamination.

Previously Painted Surfaces: Old coatings must be totally removed and a profile established as in New Surfaces.

Mixing: Use mechanical agitation for proper mixing, such as Jiffy Mixers or similar commercially available mixers. Stir until thoroughly mixed. Prior to application, strain mixed material through 60 mesh screen or other suitable filtration device.

Thinning: Thin up to 12% by volume with SolvenSany #260.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. General guidelines:

Spray Application

Spray
Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray

Use a 3/8” minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

Airless Spray

Use a 3/8” minimum I.D. material hose. Hold gun approximately 18-20 inches from the surfaces and at a right angle to the surface.

Mfr. & Gun

DeVilbiss JGN-502
Binks Model 700
Graco 205-591

Fluid Tip

GFA-514 or GFA-519
Mercury 5C or B8-36 37.1
President 30:1 or BullDog 30:1

Air Cap

704
63 PB
Approx. 0.043”I.D.

Maximum Pressure

38 psi
82 psi
54 psi

Drying Times Between Coats

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 °C</td>
<td>8 hours</td>
</tr>
<tr>
<td>16 °C</td>
<td>6 hours</td>
</tr>
<tr>
<td>24 °C</td>
<td>4 hours</td>
</tr>
<tr>
<td>32 °C</td>
<td>2 hours</td>
</tr>
</tbody>
</table>

Final Cure: To obtain optimum properties, DerCoat-2800 coating can be cured in service at temperatures of 350 °C (177 °C) to 450 °F (232 °C). Allow initial increase in temperature to proceed slowly up to 350 °F (177 °C) over a six hour time period.

Cleanup & Safety

Cleanup
Use SolvenSany #272. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety
Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Caution
This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. 1/2001

Contact

For information and Prices, Please Call a SANYCHEM Local Sales Representative.

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Application Temperatures

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Material</th>
<th>Surfaces</th>
<th>Ambient</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>16-32 °C</td>
<td>18-32 °C</td>
<td>16-32 °C</td>
<td>10 – 85%</td>
</tr>
<tr>
<td>Minimum</td>
<td>4 °C</td>
<td>4 °C</td>
<td>-18 °C</td>
<td>0 %</td>
</tr>
<tr>
<td>Maximum</td>
<td>38 °C</td>
<td>82 °C</td>
<td>54 °C</td>
<td>95%</td>
</tr>
</tbody>
</table>

Do not apply when the surface temperature is less than 2 °C above the dew point.

Teflon packings are recommended and available from the pump manufacturer.

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sales@sanychem.com

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E-mail