

## Selection & Specification Data

<b>Generic Type</b>	Silicone Acrylic
<b>Description</b>	A single package medium to high temperature coating that withstands temperature up to 525°F (274°C). For the protection of the exterior of equipment such as stacks, cat crackers boilers, heat exchangers and other steel surface which operate from 200-525°F (93°-274°C).
<b>Features</b>	<ul style="list-style-type: none"> <li>*Suitable for use as topcoat in coastal and harsh</li> <li>*industrial environments.</li> <li>*Resistant to thermal shock conditions from ambient to 400°F (240°C)</li> <li>*Excellent overall chemical resistance</li> <li>*Very good abrasion resistance</li> <li>*Easily applied by spray</li> <li>*Acceptable for use over stainless steels</li> <li>*Meets stringent VOC Regulations</li> </ul>
<b>Color</b>	Available in limited colors. Color Stability – most colors:400°F. Black : 450°F Aluminum: 525°F
<b>Finish</b>	Gloss (Flat at High Temp)
<b>Primers</b>	Self-priming. May also be applied over inorganic zinc primers for added corrosion resistance. A mist coat may be required to minimize bubbling over inorganic zinc primers
<b>Topcoats</b>	Not recommended
<b>Dry Film Thickness</b>	1.5 mils (38 microns) per coat Excessive dry film thickness will cause delamination. Two coats of 1248 are recommended directly to steel and one coat is required over inorganic zinc primers.
<b>Solids Content</b>	<u>By Volume:</u> 38% ± 2%
<b>Theoretical Coverage Rate</b>	642 mils ft <sup>2</sup> (16.0 m <sup>2</sup> /l at 25 microns) Aluminum 770 mils ft <sup>2</sup> (19.2 m <sup>2</sup> /l at 25 microns) Allow for loss in mixing and application
<b>VOC Values</b>	As supplied: 4.54 lbs/gal (545 g/l) These are nominal values.

<b>Dry Temp. Resistance</b>	Continuous: 450°F (232°C)
	NonContinuous 525°F (274°C)

**Limitations** To obtain optimum properties, coating should be cured in service.

## Substrates & Surface Preparation

**General** Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

**Steel** SSPC-SP10 with a 0.5-1.0 (12-25 microns) surface profile. Prime with specific Carboline primers defined in Market Guides or as recommended by your Carboline Sales Representative

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

**Conventional Spray** Pressure pot equipped with dual regulators, 3/8" I.D. Minimum material host, .0043" I.D. fluid tip and appropriate air cap.

**Airless Spray**

<i>Pump Ratio:</i>	30:1 (min)'
<i>GPM Output:</i>	3.0 (min)
<i>Material Hose:</i>	3/8" I.D. (min) .
<i>Tip Size:</i>	.013"-.015"
<i>Output psi:</i>	2200
<i>Filter Size</i>	60 mesh

**Brush & Roller (General)** Teflon packings are recommended and are available from the pump manufacturers  
Avoid rebrushing. Use a short mohair nap roller with phenolic core  
Two coats may required to obtain desired appearance, hiding and recommended film thickness

**Brush** For small touchup areas only. Use a natural bristle brush, applying with full strokes.

**Roller** Use a short mohair nap roller with phenolic core

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# Thermaline® 1248

## Mixing & Thinning

**Mixing** Power mix to a uniform consistency before thinning.

**Thinning** May be thinned up to 23 ounces / gallon with Thinner #25.

NOTE: Use of thinner other than those supplied or approved by Carboline may adversely affect product performance and will void product warranty whether express or implied.

## Cleanup & Safety

**Cleanup** Use CARBOLINE Thinner # 2

**Safety** Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use.

**Ventilation** When used in enclosed area, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvent used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator

**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

## Application Conditions

	<u>Material</u>	<u>Surfaces</u>	<u>Ambient</u>	<u>Humidity</u>
Normal	60-90°F (16-32°C)	65-90°F (18-32°C)	60-90°F (16-32°C)	10-85%
Minimum	40°F (4°C)	40° F (4°C)	40°F (4°C)	0%
Maximum	100°F(38°C)	130°F(54°C)	130°F(54°C)	95%

Do not apply when the surface temperature is less than 5°F (3°C ) above the dew point.

## Curing Schedule

<u>Surface Temp. &amp; 50% Relative Humidity</u>	<u>Dry to touch</u>	<u>Dry to Haldle</u>
75°F (24°C)	1 hours	18 hours

**Note** : Will air dry to touch but will remain soft for handling purposes

**FINAL CURE**: To obtain optimum properties. Carboline 1248 must be cured at temperatures of 300°F (149°C) to 450°F (232°C). Allow initial in temperature to proceed slowly up to 350°F (177°C) over a six hour time period.

## Packaging, Handling & Storage

**Shipping Weight (Approximate)**

Thermaline 1248	1's 5 Ltrs
Thinner 25	4 kg

**Flash Point (Setaflash)**

Thermaline 1248	77°F	25°C
Thinner 25	77°F	25°C

**Storage Temperature & Humidity**

Store indoors.  
Temperature: 40-110°F (4 - 43°C)  
Humidity: 0-100%

**Shelf Life**

12 months minimum when stored at 32°C  
4 months minimum for Aluminum at 32°C

**\*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



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