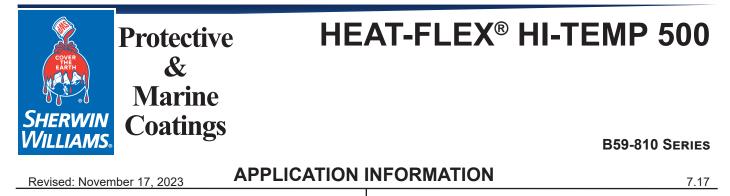
HEAT-FLEX® HI-TEMP 500 Protective & Marine Coatings B59-810 SERIES PRODUCT INFORMATION Revised: November 17, 2023 7.17 **Recommended Uses PRODUCT DESCRIPTION** Direct to stainless steel or carbon steel HEAT-FLEX HI-TEMP 500 is formulated with a acrylic silicone resin and can be Direct to carbon steel or with primer applied direct to stainless steel or over carbon steel with or without primer. It is Cyclic service up to 500°F (260°C) recommended for continuous operating service temperatures up to 500°F (260°C). Stacks Furnaces Does not require heat curing Piping Boilers Heat exchangers Single component • Recommended for continuous service up to 500°F (260°C) Recommended Systems User-friendly - can be brushed or rolled Dry Film Thickness / ct. Excellent spray application properties Mils (Microns) · Air dries at ambient Carbon Steel: Can be applied direct to stainless steel Heat-Flex Hi-Temp 500** 2.0-2.5 (50-62) 2 cts or 1 ct. Heat-Flex 1200 Plus 5.0-6.0 (125-150) 1 ct. Heat-Flex Hi-Temp 500** 2.0-2.5 (50-62) **PRODUCT CHARACTERISTICS** or EpoPhen FF*** 7.0-9.0 (175 - 225)1 ct. Acrylic Silicone Generic type: 1 ct. Heat-Flex Hi-Temp 500 2.0-2.5 (50-62) Color: SW4003 Pallet Tan, SW4054 Basin, or Phenicon HS FF*** 5.0-6.0 (125-150) 1 ct. SW4070 Generator Green, Black, Heat-Flex Hi-Temp 500 (50-62) 2.0-2.5 1 ct. Aluminum, Cirrus Gray, Shale Gray, or Cor-Cote HT*** 1 ct. 4.0-5.0 (100 - 125)Thunder Gray, New-Toned White 1 ct Heat-Flex Hi-Temp 500 2 0-2 5 (50-62) Finish: Flat or Cor-Cote HT FF*** 1 ct 4 0-5 0 (100 - 125)Volume solids: 38-41%, depending on color Heat-Flex Hi-Temp 500 1 ct 2 0-2 5 (50-62)28.6% - Aluminum **Must apply a mist coat of Heat-Flex Hi-Temp 500. Allow 10 minutes flash off and follow with a full coat. voc 414 g/L; 3.45 lb/gal 344.4 g/L: 2.79 lb/gal - Aluminum *Refer to respective product data sheet for maximum service temperature recommendation. Recommended Spreading Rate per coat: Stainless Steel: Heat-Flex Hi-Temp 500 2.0-2.5 (50-62) 2 cts Minimum Maximum NOTE: Heat-Flex Hi-Temp 500 is also suitable for use over inorganic zinc rich primers. 5.5 (137.5) Wet mils (microns) 4.5 (112.5) Not recommended for: Dry mils (microns) 2.5 (62.5) 2.0 (50) Service above 500°F (260°C) ~Coverage sq ft/gal (m²/L) 269 (6.6) 336 (8.2) Interiors of industrial air pollution control devices Immersion service Theoretical coverage sq ft/gal (m²/L) 672 (16.5) @ 1 mil / 25 microns dft TINTING Drving Schedule @ 50% RH: Do not tint @ 50°F/10°C @ 77°F/25°C Application Conditions To touch: 4-6 hours 1-2 hours Temperature: 50°F (10°C) minimum, 120°F (50°C) maximum 8-10 hours To recoat: 10 hours Air, surface, and material To ship:* 72 hours 24 hours At least 5°F (2.8°C) above dew point Maximum 85% relative humidity * Proper procedures for thin-filmed systems should be followed when handling and shipping. Avoid any mechanical abrasion. ORDERING INFORMATION Drying time is temperature, humidity, and film thickness dependent Weight per gallon: 11.2 lb. (5.2 kg.) Shelf Life: 12 months, unopened SURFACE PREPARATIONS Store indoors at 50°F (10°C) to 100°F (38°C). Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, Flash Point: 80°F (27°C) loose rust, and other foreign material to ensure adequate adhesion. Reducer: Not recommended Minimum recommended surface preparation: Iron & Steel: SSPC-SP6, 1.5-2.5 mil Clean Up: Xylene, R2K4 (40-63 micron) profile Or SSPC-SP11, 1.0-2.5 mil Do not exceed maximum recommended DFT. May affect adhesion. (25-63 micron) profile Stainless Steel: SSPC-SP1, Do not use chlorinated solvents for cleaning



SURFACE PREPARATIONS (CONT'D)

Iron & Steel

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1.5-2.5 mils / 40-63 microns maximum). If SSPC-SP6/NACE 3 is not possible, Power Tool Cleaning to Bare Metal per SSPC-SP11 is also acceptable (1.0-2.5 mil / 25-63 micron profile maximum). Hand Tool Cleaning per SSPC SP 2 or Power Tool Cleaning per SSPC SP 3 are acceptable preparation methods when SSPC SP 6 or SSPC SP 11 are not possible. Coat any bare steel the same day as it is cleaned or before flash rusting occurs. On stainless steel, clean per SSPC-SP1. Aluminum Oxide grit is also acceptable for use. Do not use chlorinated solvents for cleaning stainless steel. Product performance is relative to the surface preparation achieved.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal		Sa 3 Sa 2.5	Sa 3 Sa 2.5	SP 5 SP 10	1
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Rusted	Sa 1 C St 2	Sa 1 C St 2	SP 7 SP 2	4
Hand Tool Cleaning	Pitted & Rusted	D St 2 C St 3	D St 2	SP 2	-
Power Tool Cleaning	Rusted Pitted & Rusted	D St 3	C St 3 D St 3	SP 3 SP 3	-

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Conventional spray is the recommended method of application. Do not apply in heavier films than specified as blistering may occur.

Conventional Spray:

Gun	Graco 700N
Fluid Nozzle	0.045" - 0.055"
Air Nozzle	20 cfm
Atomizing Pressure	50 psi
Fluid Pressure	20-30 psi

Airless Spray:

Pressure	Minimum 2000 psi
Hose	3/8" ID
Тір	0.013" - 0.017"
Reduction	Not recommended

APPLICATION EQUIPMENT (CONT'D)

Brush

Brush.....Natural bristle Reduction.....Not recommended

Roller

Cover1/4"-3/8" woven with solvent resistant	Cover
core	
ReductionNot recommended	Reduc

If specific application equipment is not listed, equivalent equipment may be substituted. For brush and roller application, maintain a wet edge while avoiding runs or excess film build.

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly with low speed, sparkproof, power agitation before use. Obtain a uniform consistency. Do not incorporate air.

CLEAN UP

Clean spills and spatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.