Protective & Marine Coatings
PRODUCT DATA SHEET

HEAT-FLEX® 1200 PLUS

INORGANIC MULTI-POLYMERIC MATRIX COATING

Revised: April 14, 2026

PRODUCT DESCRIPTION

HEAT-FLEX 1200 PLUS is the next generation, two-component, micaceous iron oxide enhanced, inert multi-polymeric matrix (IMM) coating that outperforms alternatives in anticorrosion and mechanical resistance, combating corrosion under insulation (CUI) and in high heat applications.

- Resists corrosion under insulation and stress corrosion cracking, and confirms to NACE SP0198:2017 CUI System CS-6 and SS-5
- Operating surface temperatures from -321°F (-196°C) to 1200°F (649°C)

INTENDED USES

Formulated as a 2K for shop application of bulk items where damage resistance is required. Can be used direct to carbon or stainless steels, simplifying coating specifications for process piping and accessories. Offers long term, UV stable corrosion protection in power plants, oil & gas and chemical plants as well as offshore installations. Suitable for use on surfaces either uninsulated or under thermal insulation and for the protection of cryogenic piping and equipment.

PRODUCT DATA

Finish:	Low Sheen
Colors:	Gray, Dark Gray, and Aluminum
Volume Solids:	57% ± 2% (calculated)
VOC (EPA Method 24):	<420 g/L; 3.5 lb/gal
Mix Ratio:	1 gallon Part A to 2 fl. oz. Part B
Typical Thickness:	

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**8.0** (200)	**10.0** (250)
Dry mils (microns)	**4.0** (100)	**6.0** (150)
~Coverage sq ft/gal (m^2/L)	**152** (3.7)	**228** (5.6)
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**912** (22.3)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Shelf Life:	Part A: 12 months Part B: 36 months Unopened at 77°F (25°C). Store indoors at 40°F (4.5°C) to 100°F (38°C).
Flash Point:	87°F (31°C) SETA
Reducer*:	Hot application only
Clean Up:**	VOC Restricted Areas (≤25 g/L, or ≤3%): use R7K111
Weight:	16.1 ± 0.3 lb/gal ; 1.93 Kg/L

*See additional notes section for details on hot application. Do not reduce for ambient applications as it can affect film build, appearance, and adhesion.

**Other areas (>25 g/L, or >3%): use acetone, R7K111, or Xylene. Choose a solvent that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Average Drying Times @ 8.0 mils wet (200 microns):

	50°F (10°C)	77°F (25°C) *50% RH*	120°F (49°C)
Touch:	30 minutes	20 minutes	10 minutes
Tack Free:	90 minutes	60 minutes	30 minutes
Recoat:	3 hours	2 hours	1 hour
Handle:	24 hours*	24 hours	24 hours
Pot Life:	24 hours	24 hours	24 hours

Sweat-In-Time: None

*Higher film build affects cure speed and increases ship time at lower temperatures

Drying time is temperature, humidity, and film thickness dependent.

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to coating application, surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil and grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Minimum recommended surface preparation:

Iron & Steel:

Preferred:	Abrasive blast clean to Sa 2.5 (ISO 8501-1:2007), SSPC-SP10/NACE 2, 1.5-2.5 mil (40-63 microns) profile
Acceptable:	SSPC-SP11, 1.0-2.5 mil (25-63 micron) profile

Stainles Steel: SSPC-SP17 to achieve a profile of 1-2 mils (25-50 microns)

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APPLICATION

Airless Spray

Pump	30:1
Pressure	2700-3000 psi (186-207 bar)
Hose	3/8" ID (9.5 mm)
Tip	.017-.019" (0.43-0.48 mm)
Filter	60 mesh

Conventional Spray

Gun	Graco 700N
Fluid Tip	.045-.055" (1.14-1.40 mm)
Air Nozzle	20 cfm
Atomization Pressure	50 psi (3 bar)
Fluid Pressure	20-30 psi (1-2 bar)

Brush

Brush	China Bristle

Roller

Cover	1/2" woven with solvent resistant core

If specific application equipment is not listed above, equivalent equipment may be substituted.

RECOMMENDED SYSTEMS

Dry Film Thickness / ct.	Mils	(Microns)
Carbon Steel or Stainless Steel - Atmospheric:		
2 Cts. Heat-Flex 1200 Plus	4.0-6.0	(100-150)
Carbon Steel or Stainless Steel - Insulated Serivce:		
2 Cts. Heat-Flex 1200 Plus	4.0-6.0	(100-150)

Do not exceed maximum recommended DFT. May affect adhesion.

The systems listed above are representative of the product's use, other systems may be appropriate.

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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

APPLICATION CONDITIONS

Temperature:

Surface:	50°F (10°C) minimum, 500°F (260°C) maximum
Air & Material:	50°F (10°C) minimum, 120°F (49°C) maximum At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

APPROVALS

- Suitable for use in USDA inspected facilities
- Meets USDA requirement for incidental contact

ADDITIONAL NOTES

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, thinning, climatic conditions, and excessive film build.

Hot Application: Reduce up to 5% by volume with MAK and apply coating in several thin passes to allow solvent to escape and to prevent blistering. Allow at least 15-20 minutes between each coat. If blistering does occur, brush out immediately with a china bristle brush.

If an adhesion test is required for a project, carry this out by applying a test patch of 2-3 square feet. Allow one week to dry before checking adhesion using ASTM D6677 or similar standard.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene.

Minor color change may be exhibited in exposed service, but will not affect performance.

Overspray dries to a removable dust at heights ≥ 9 feet at 77°F (25°C) and 50% relative humidity. Results will vary based on environmental conditions.

For weld areas and small touch up repairs, power tool cleaning to SSPC-SP11 is suitable. Optimal performance will be achieved with a minimum surface profile of 50 microns (2 mils).

HEALTH AND SAFETY

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 Sheet.