

TYPE	Two components. Moisture curing coating based on inorganic copolymer and silicon resin to provide a corrosion resistance barrier, when used to protect steelwork under thermal insulation in areas subjected to wet and dry cycling. Typically, applied direct to metal about 12 mils ($300\mu m$). Particularly, effective in maintenance situations, when used to mitigate the damaging effects of corrosion under insulation (CUI). It offers a sufficient protective barrier on carbon and stainless steel to temperatures ranging up to $1202^{\circ}F$ ($650^{\circ}C$) and for cryogenic service to $-320^{\circ}F$ ($-196^{\circ}C$).		
USES	Use for metal structures such as steel pipes, steam pipes, hot oil pipes and plant facilities.		
CHARACTERISTICS	 Excellent high heat and cold resistance, can withstand heat up to 1200°F (650°C), cold-resistant to -320°F (-196°C). Excellent adhesion, prevent corrosion and anti-corrosion for thermal shocking structures. The moisture curing crosslinking mechanism allows multiple coats can be applied without heat curing. Can be sprayed directly to high temperature carbon steel, corrosive alloy steel, galvanized steel, austenitic/duplex stainless facilities when the surface temperature up to 428°F (220°C). Offers exceptional barrier and resistance to wet/dry cycling at elevated temperatures and thermal shock environment. For CUI condition, 3 coats and total DFT 12 mils (300µm) are required. 		
PRACTICAL INFORMATION	Color	Iron-Gray, Silver-Gray, and Brown	
INFORMATION	Gloss Level	Matt	
	VOC Values	3.66 lbs/gal (430 g/l); Use CONTITHINNER 64 thinner to thin up 5% (4.00 lbs/gal=470 g/l).	
	Volume Solids	53±3%	
	Theoretical Coverage	1 mils:1140.8 ft²/gal (106 m²/l) 4 mils:285.2 ft²/gal (26.5 m²/l)	
	Typical Thickness	DFT:4~6 mils WFT:7.5~11.3 mils	
	Service Temperature	-321°F (-196°C) \sim 1202°F (650°C)	
	Preceding Coats	Self-Priming	
	Preceding Coats Subsequent Coats	Self-Priming CONTITHERM 2569 Heat-Resisting Top Coat	



SUBSTRATES &

PERFORMANCE

DATA

SURFACE PREPARATION

General	Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
Steel	Surface preparation standards can use SSPC- SP10 or Sa2 1/2 (ISO 8501-1:2007).
Stainless & Galvanized	The galvanized or stainless steel must be sand blasted to SSPC- SP16 before application. Dense angular for stainless and galvanized steel surface requires above 1 mils.
Areas of Breakdown and Damage	Should be prepared to the specified standard (Sa2 1/2 (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of CONTITHERM 2566.

Test Method	System	Results
CNS 2949-1986 Heat- Resistance	3 cts. 1566 3 cts. 1566	Pass: Impact resistance test 12.5mmx 300g x 500mm, Heat -Resistance : 1202°F (650°C) Cold Test : -321°F (-196°C)
ASTM D2485, Heat Resistance	3 cts. 1566	150°C, 230°C, 450°C/ 24 hours No damage can be observed visually
ISO 20340 Corrosion Resistance	3 cts. 1566	Carbon steel: below 0.9mm rust creepage Stainless steel: No rust creepage
ISO 4628-6-07 ASTM D610-08 Anti-aging	3 cts. 1566	Chalking rating: 0.5 Rust grade: 10
ASTM D3359 Adhesion	3 cts. 1566	5A scale adhesion rating (means no peeling or coating removal)
ASTM F963 Soluble Heavy Metals Test	1 ct. 1566	N.d.
ASTM B117-11 Salt Spray	3 ct. 1566	No blistering, cracking and rusting after 5000 hours



PERFORMANCE	To of Madh a	d Oustan	Beeulte		
DATA	Test Metho	d System	Results		
		Nentine	PASS-Step1 : 752°F (400℃) thermal shock		
	Taiwan FPC CUI C Test	3 ct. 1566	PASS-Step2 : ASTM B117-11 Salt		
	Test		Spray 5000 hours		
	Test reports and ac	ritten request.			
CERTIFICATION	 CNS2949-1986: Report number KV-12-05477Z (SGS Taiwan Ltd) NORSOK M-501-04: Report number KV-13-04546X (SGS Taiwan Ltd) 				
	 NORSOK M-5 	01-04: Report number KV-13-0	4546X (SGS Taiwan Ltd)		
	Taiwan Formos	sa Plastics Specification FGES	-T-UPA12 (CSI-20 CHP-07 SHP-06)		
MIXING & THINNING	Mixing Thoroughly mix to a uniform consistency prior to use.				
	C	Substrate temperature at room temperature $\sim 212^{\circ}$ F (100 $^{\circ}$ C) : Use CONTITHINNER 64X to be thinner. Substrate temperature at 212 $^{\circ}$ F (101 $^{\circ}$ C) $\sim 428^{\circ}$ F (220 $^{\circ}$ C) : Use CONTITHINNER 64S to be thinner.			
	Mixing Ratio E	io Base: Hardener = 99.2: 0.8 (by weight); 99.2: 0.8 (by volume)			
	Pot Life 8	8 hours at 77 $^\circ\mathrm{F}$ (25 $^\circ\mathrm{C}$); 5 hours at 104 $^\circ\mathrm{F}$ (40 $^\circ\mathrm{C}$)			
APPLICATION EQUIPMENT GUIDELINES	Spray Application	Rough surface of paint film may be caused by prompt evaporation of thinner, when sprayed on high temperature substrate. Avoid applying the paint in rainy day or the relative humidity exceed 85%. particularly, a wet surface must be thoroughly dried. Applying temperature of substrates up to 428°F (220°C).			
	Airless Spray	Pump ratio: 45:1 or greate Tip size: 0.021"~0.025" Output PSI: 2800~4500 PS			
	Brush	Brush is applicable only fo	r hot surface under 140 $^\circ\mathrm{F}$ (60 $^\circ\mathrm{C}$)		
	Roller	Not recommended			



APPLICATION CONDITIONS

Condition	Coating	Surface	Environment	Humidity
Minimum	50 °F (10℃)	50 °F (10℃)	50 °F (10℃)	30%
Maximum	113 °F (45 ℃)	428 °F (220℃)	113 °F (45 ℃)	85%

Industry standards are for substrate temperatures to be 5° F (3[°]C) above the dew point. The product simply requires the substrate temperature to be above the dew point.

CURING SCHEDULE

Surface Temp. (50% Relative Humidity)	Touch Dry	Hard Dry	Dry to Handle
50 °F (10℃)	2 hours	24 hours	7 days
59 °F (15℃)	2 hours	16 hours	7 days
77 °F (25 ℃)	1 hour	8 hours	7 days
95 °F (35 ℃)	1 hour	6 hours	5 days

- 1. CONTITHERM 2566 needs 7 days to final cure at 77 °F (25°C) ambient temperature.
- These data are based on a 12 mils (300µm) dry film thickness. Higher film thickness, lower temperatures or insufficient ventilation need a longer cured time and can cause solvent entrapment in the coating film.

CLEANER & SAFETY	Cleaner	Use Thermal Thinner (CONTITHINNER 64X) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.		
	Safety Ventilation	Please read and follow all caution statements on this product data sheet and MSDS for this product. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.		
PACKAGE, HANDLING & STORAGE	Shelf Life	Minimum 18 months under 30 $^\circ\!\mathrm{C}$ environment temp.		
	Shipping Weight	1 Gallon Kit – Part A: 0.99 Gallon (4.9 Kg) Part B: 0.01 Gallon (0.04 Kg) 5 Gallon Kit – Part A: 4.95 Gallon (24.5 Kg) Part B: 0.05 kg Gallon (0.2 Kg)		



PACKAGE, **Storage Temperature & Humidity 41-95°**F **(5-35°**C**) HANDLING &** 0-90% Relative Humidity STORAGE

Flash Point

77°F (25°C)

Storage

Store in cool ventilated place, do not exposed to the sun in outdoor to avoid affecting the quality.