CONTITHERM 2567 (NO.1567)
SILICONE MODIFIED EPOXY PRIMER

TYPE

2 packs Amine-cured silicon epoxy resin Novalac. Provide a corrosion resistant barrier when used for steam purge pipe, thermal cycling environment, and under cementitious fireproofing. It has an excellent ability for anti-corrosion in heavy duty environment. CONTITHERM 2567 must be top coated with CONTITHERM 2569 when used for outdoor conditions.

USES

Use for carbon steel and stainless steel to corrosion prevention under 572℉ (300℃)

CHARACTERISTICS

- Excellent heat and cold resistance, can withstand heat to 572℉ (300℃), cold-resistant to -320℉ (-196℃).
- Excellent anti-corrosion for thermal shocking structures.
- Excellent resistance to chemicals.
- Can be sprayed to the carbon steel, galvanized steel and stainless after its surface has been treated.
- Offers exceptional barrier and resistance to wet/dry cycling at elevated temperatures and thermal shock environment, suitable for CUI (Corrosion Under Insulation) and CUF (Corrosion Under Fireproofing) environment.

PRACTICAL INFORMATION

Color	Black, and Silver-Gray
Gloss Level	Semi-Gloss
VOC Values	3.36 lbs/gal (395 g/l); Use SP-12 thinner to thin up 5% (3.68 lbs./gal=433 g/l)
Volume Solids	53±3%
Theoretical Coverage	1 mils：1059.2 ft^2/gal (98.4 m^2/l) 4 mils：264.8 ft^2/gal (24.6 m^2/l)
Typical Thickness	DFT：4~5 mils WFT：7.5~9.4 mils
Service Temperature	320℉ (-196℃) ～572℉ (300℃)
Preceding Coats	Self-Priming
Subsequent Coats	CONTITHERM 2569 Heat-Resistance Top Coated
Repair	Self-Repairing

SUBSTRATES & 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.

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SUBSTRATES & SURFACE PREPARATION

Steel

Surface preparation standards can be used SSPC-SP10、Sa2 1/2 (ISO 8501-1:2007) or hand rusting to SIS St3.The galvanized or stainless steel must be sand blasted to SIS Sa1 before application. Roughness for structure of carbon steel requires for 1.8~2.4 mils (45~60 microns), for stainless and galvanized steel surface is above 1.0mils (25 microns).

PERFORMANCE DATA

Test Method	System	Results
ASTM D2485, Method A Heat Resistance	3 ct. 1567	300℃/48 hours No damage can be observed visually
ISO 20340 Corrosion Resistance	3 ct. 1567	No rust creepage at 230℃ (446℉)
ASTM D3359 Adhesion	3 ct. 1567	5A scale adhesion rating （means no peeling or coating removal）
ASTM D4541-02 TYPE II Pull-Off Strength of Coatings	3 ct. 1567	41.1(kg. /CM^2)
ASTM F963 Soluble Heavy Metals Test	1 ct. 1567	N.d.
ASTM B117-11 Salt Spray	3 ct. 1567	No blistering, cracking and rusting after 10000 hours (417 days)
Taiwan FPC Thermal Coating Test	3 ct. 1567	Pass 95℃ (203℉) Boiling water 1 hours Pass 5% H2SO4 72 hours Pass 5% NaOH 72 hours Pass Petroleum 72 hours

Test reports and additional data available upon written request.

CERTIFICATION

- Taiwan Formosa Plastics Thermal Coating Test(SGS Taiwan Ltd.)
- Taiwan Formosa Plastics CUI Specification test (PolyLab LLC)
- Taiwan Formosa Plastics Specification FGES-T-UPA12 (CSI-22 CSP-04 SSP-04 CHP-01 SHP-01)

MIXING & THINNING

Mixing Mix base and hardener according to the mixing ratio and stir thoroughly.

Thinning Use Epoxy Thinner (CONTITHINNER 12) to thin up 5-10%

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MIXING & THINNING

Mixing Ratio Base: Hardener = 92: 8 (by weight)

Pot Life 4 hours at 77 ℉ (mixture, 25℃)

APPLICATION EQUIPMENT GUIDELINES

Spray Application Add thinner to base and stir thoroughly, then add hardener. Wet film should be below 7.9 mils (200 microns) for one coat spray to avoid sagging. Viscosity may higher while add hardener. Please keep stirring for few minutes. The coating film must be cured for 7 days in room temperature before service, it shows no cracking heating to 572 ℉ (300℃) from room temperature directly.

Airless Spray Pump ratio : 45:1 or greater
Tip size : 0.025''~0.029"
Output PSI: 2500~4000

Brush Application by brush is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.

Roller Application by roller is recommended for small areas only. Multiple coats may be required to achieve specified film thickness.

APPLICATION CONDITIONS

Condition	Coating	Surface	Environment	Humidity
Minimum	50℉ (10℃)	50℉ (10℃)	50℉ (10℃)	30%
Maximum	113℉(45℃)	140℉(60℃)	113℉(45℃)	85%

Industry standards are for substrate temperatures to be 5℉ (3℃) 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℉ (10℃)	16 hours	24 hours	7 days
59℉ (15℃)	8 hours	16 hours	7 days
77℉ (25℃)	4 hours	8 hours	7 days
95℉ (35℃)	3 hours	6 hours	5 days

OVERCOATING INTERVAL

Surface Temp. (50% Relative Humidity)	Minimum	Maximum (No direct exposure to sunlight)	Maximum (Directly exposure to sunlight)
68℉ (20℃)	2.5 hours	2 months	1 months
104℉ (40℃)	1 hour	14 days	10 days

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CLEANER & SAFETY

Cleaner	Use Epoxy Thinner (CONTITHINNER 12) 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 normal conditions.
Shipping Weight	1 Gallon Kit – Part A：0.96 Gallon (4.9 kg) Part B：0.04 Gallon (0.3 kg) 5 Gallon Kit – Part A：4.8 Gallon (24.5 kg) Part B：0.2 Gallon (1.5 kg)
Storage Temperature &Humidity	41-95℉ (5-35℃) 0-90% Relative Humidity
Storage	Store in dry, shaded conditions away from sources of heat and ignition.