CONTITHERM 2569 (NO.1569)
SILICONE FINISH

TYPE

2 components, heat-resistance coating is based on a moisture curing inorganic copolymer and silicon resin without heat curing. Prevents corrosion and protects primer. CONTITHERM 2569 is a high-performance coating that applied using standard application equipment and can be cured at ambient temperatures. Suitable for temperatures up to 1200℉ (650℃).

USES

Heat-resistance top coat for color stability and durability.

CHARACTERISTICS

- The moisture curing crosslinking mechanism allows multiple coats to be applied without heat curing.
- Excellent heat resistance, can withstand substrate temperature up to 1200℉ (650℃).
- Can be applied heat-resistance primer and inorganic zinc primer to enhance affectively extend life of the system.
- Excellent resistance to corrosion upon the continuously recycles heating system.
- Good moisture resistance in an alternative cold and hot environment.

PRACTICAL INFORMATION

Color	Silver-Gray, Sliver (withstand temperature up to 1200℉ / 650℃) Desired colors (withstand temperature up to 572℉ / 300℃)
Gloss Level	Flat
VOC Values	4.25 lbs/gal (500 g/l) Use CONTITHINNER 64X thinner to thin up 5% (4.52lbs/gal=532 g/l)
Volume Solids	43±3%
Theoretical Coverage	1 mils：729.4 ft^2/gal (67.8 m^2/l) 1.4 mils：521 ft^2/gal (48.4 m^2/l)
Typical Thickness	DFT：1~3 mils WFT：2.3~6.9 mils
Service Temperature	-321℉ (-196℃) ～1202℉ (650℃)
Preceding Coats	Inorganic Zinc Rich Primer, 2566 Inorganic High Temperature Corrosion Prevention Coating, and 2567 High Temperature Under Insulation Anti-Corrosion Coating
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

CONTITHERM 2569 should always applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination. CONTITHERM 2569 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

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 2569.

PERFORMANCE DATA

Test Method	System	Results
ISO 4628-6-07 ASTM D610-08 Anti-aging	Blasted Steel 1 ct. IZ-01 (75 microns) 1 ct. 1569 (50 microns)	Chalking rating: 0.5 Rust grade: 10
CNS 11478 (1995) Heat Resistance	Blasted Steel 1 ct. IZ-01 (75 microns) 1 ct. 1569 (50 microns)	No blistering, cracking and peeling in appearance (600℃/48hr)
ASTM D2485, Method A Heat Resistance	Blasted Steel 3 ct. 1566 (300 microns) 2 ct. 1569 (70 microns)	150℃, 230℃, 450℃/ 24hr No damage can be observed visually
ISO 20340 Corrosion Resistance	3 ct. 1566 (300 microns) 2 ct. 1569 (70 microns)	No rust creepage at 450C
ASTM D3359 Adhesion	3 ct. 1566 (300 microns) 2 ct. 1569 (70 microns)	5A scale adhesion rating (means no peeling or coating removal)
ASTM F963 Soluble Heavy Metals Test	1 ct. 1569	N.d.
ASTM G154-06 Cycle1 ASTM D4214-07 Accelerated weather resistance	1 ct. 1569 (50 microns)	Pass 1000 hours Exceed 8

Test reports and additional data available upon written request.

CERTIFICATION

- Norsok M-501-04 : Report number KV-13-04545XA-1 (SGS Taiwan Ltd.)
- Taiwan Formosa Plastics CUI Specification test (PolyLab LLC)
- Taiwan Formosa Plastics Specification FGES-T-UPA12 (CSP-04 SSP-04 CHP-01 SHP-01)

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MIXING & THINNING

Mixing	Thoroughly mix to a uniform consistency prior to use.
Thinning	Use CONTITHINNER 64X Thinner to thin up 10-20%
Mixing Ratio	99.3：0.7(by weight) ; 99.3: 0.7 (by volume)
Pot Life	8 hours at 77℉ (25℃); 5 hours at 104℉ (40℃)

APPLICATION EQUIPMENT GUIDELINES

Spray Application	Stir well before use, layer phenomenon may occur if the paint is kept for a certain period of time. Avoid applying the paint in rainy day or the relative humidity exceed 85%, particularly a wet surface must be thoroughly dried. All equipment must be cleaned immediately after use. The usage of thinner will increase or decrease depending on the temperature of the coated surface, if the temperature is decreased the amount of thinner may have to be increased.
Airless Spray	Pump ratio: 30:1 or greater Tip size: 0.015”~0.021” Output PSI: 2000~3500 PSI
Brush	Application by brush is applicable. For special condition please consult with product manufacturer.
Roller	Application by roller is applicable. For special condition please consult with product manufacturer.

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.

1. CONTITHERM 2569 needs 7 days to final cure at 77℉ (25℃) ambient temperature.
2. These data are based on 3 mils (75μm) dry film thickness. Higher film thickness, lower temperatures or insufficient ventilation need a longer cured times and can cause solvent entrapment in the coating film.

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CURING SCHEDULE

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

CLEANER & SAFETY

Cleaner

Use Thermal Thinner (CONTITHINNER 64) 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：0.99 Gallon (5.1 kg)
Part B：0.01 Gallon (0.04 kg)
5 Gallon Kit – Part A：4.95 Gallon (25.5 kg)
Part B：0.05 Gallon (0.2 kg)

Storage Temperature &Humidity

41-95℉ (5-35℃)
0-90% Relative Humidity

Flash Point

77℉ (25℃)

Storage

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