



# intertherm<sup>®</sup> 50

## Features

- A single component, high temperature coating, based on inorganic silicone technology, for use on ultra high heat surfaces up to 540°C (1004°F)
- No heating between coats, improved application and reduction in costs
- No expensive heating required before being placed in service
- Suitable for application over inorganic zinc, meets industry standard specifications
- Good corrosion resistance and protection when surfaces are not at high temperature
- Application tolerant, reduced problems with thickness control
- Surface tolerant. Suitable for application to steel that has been hand or power tool cleaned to a minimum St3 (ISO 8501-1:1988) or SSPC-SP3, operating up to 400°C (752°F).
- Aluminium pigment, excellent heat dissipation
- Suitable as a sealer for thermal spray aluminium (TSA)



## Intertherm® 50

Intertherm 50 is a single component High Heat coating suitable for use on surfaces operating to 540°C (1004°F). The material has a wide range of features that make it ideally suitable for an extensive range of applications from flare stacks, furnace surfaces, heat exchangers, and the piping industry both carbon steel and stainless steel surfaces.

### Flexible Application

Not only does Intertherm 50 afford excellent heat resistance; it does so without the need for inconvenient and costly heat curing in between coats and before being placed into surface.

For ultimate protection, Intertherm 50 can be applied over inorganic zinc primers. However where necessity dictates, Intertherm 50 can be applied direct to correctly prepared substrates, even to those where abrasive blasting is not possible such as those prepared by hand or power tool cleaned to a minimum St3 (ISO 8501-1:1988) or SSPC-SP3.

## Technical Information

Colours	Aluminium and Black	
Volume Solids	45%	
Film Thickness	25µm (1 mil)dry equivalent to 56µm (2.2mils)wet	
Dry Time	Hard Dry	Min Recoat
5°C (41°F)	5 hours	24 hours
15°C (59°F)	3 hours	16 hours
25°C (77°F)	2 hours	12 hours
40°C (104°F)	1 hour	6 hours
VOC's	490 g/l UK - PG6/23(92), Appendix 3 4.12 lb/gal (495 g/l) USA - EPA Method 24	

### Typical Specifications

Apply to surfaces abrasive blasted to SSa2 (ISO 8501-1:1988) or SSPC-SP6.*	
Non insulated substrate. Operating up to 540°C (1004°F).**	1 x Interzinc 22 at 50µm dft (2 mils) or other approved inorganic zinc 2 x Intertherm 50 aluminium at 25µm (1.0 mils) dft per coat
Insulated substrate. Operating up to 540°C (1004°F).**	3 x Intertherm 50 aluminium at 25µm (1.0 mils) dft per coat

\* for surfaces prepared to lesser standards, contact International for temperature resistance

\*\* For colours other than aluminium, contact International for temperature resistance

### Test Data

Test Type	Reference	Details	Results
Elevated Temperature Test	Temperature increased from 250 to 540°C over an 80-hour period. Followed by 100hrs ASTM B117 salt spray.	2 x 25µm dft applied directly to Sa2.5 blasted steel.	No visible defects (e.g. rusting, blistering & cracking.)
Elevated Temperature Test	Temperature increased from 250 to 540°C over an 80-hour period. Followed by 100hrs ASTM B117 salt spray.	1 x 25µm dft applied directly over Interzinc 22 primer.	No visible defects (e.g. rusting, blistering & cracking.)
Salt Spray	ISO 7253 - Resistance to neutral salt spray.	2 x 25µm dft applied directly over Interzinc 22 primer.	No film defects such as blistering & rusting following 1024 hours exposure.
Quenching Test	During curing, exposed to 300°C temperature, then quenched in tap water at ambient .	1 x 25µm dft applied directly to Sa2.5 blasted steel.	On completion of 5 quenches there were no visible defects.

The above performance data has been compiled based on present experience of in-service product performance and upon performance data obtained under laboratory test conditions. Actual performance of the product will depend upon the conditions under which the product is used.

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