SIPTHERM 510
Silicone High Heat Coating

Product No. 6510

Features

- Heat Resistance:
  Aluminium colour for peak temperatures up to 540°C.
- Fast Dry:
  Does not require a bake cure to obtain good film properties.
- Chlorine free. Use to coat stainless steel surfaces.
- Approved under APCS-11A.

Recommended Use

- Siptherm 510 High Heat Coating is designed to protect steel surfaces operating at temperatures of 260°C for Black, 450°c for Aluminium and 200°C for other colours.
- Aluminium colour will withstand peak temperatures up to 540°c.
- Siptherm 510 High Heat Coating is recommended for : stacks, breechings, boiler casings, furnaces, dryers, process vessels piping, manifolds, radiators, heat exchangers.

Physical Data

Colours : Aluminium and Black
Other colours
(200°C)

Volume Solids : 30%

Recommended Film Thickness :
25 microns dry = 83 microns wet

Theoretical Coverage:
12 m²/ltr. at 25 microns

Density : 1.0 kg/ltr.

Drying Times:
25°C/ 50% RH

Tack Free	:	01 Hour
Recoatable	:	12 Hours
Maximum Recoating Time	:	No Limit

Heat Resistant :

Aluminium	:	Operating temp. of 450°C with peaks to 540°C
Black	:	Operating temp. of 260°C
Other Colours	:	Operating temp. of 200°C

Flash Point : 28°C

Specification Data

Preparation
All surfaces must be free of oil, grease and moisture before blast cleaning to Near White Metal equivalent to Steel Structures Painting Council SP10 or ISO 8501-1 Sa 2.5. The steel profile after blasting should not be less than 0.25 mils (6 microns) or more than 1.0 mil (25 microns) with an average of 0.5 mils (13 microns) in depth and be of a jagged nature as opposed to a peen pattern. Surfaces must be free of grit dust. SIPTHERM 510 should be applied to cleaned surfaces as soon as possible to prevent rerusting or contamination.

For areas where sandblast cleaning cannot be accomplished, hand clean, preferably with power disc sander, to bright, non-polished, metal.

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Application Data

Mixing Advice	Use mechanical agitation for proper mixing, such as Jiffy Mixers or similar commercially available mixers. Stir until thoroughly mixed. Prior to application, strain mixed material through 30 - 60 mesh screen or other suitable filtration device.
Thinning	Thinner 730 Thinning is not normally required or desired; however, at lower temperatures, small amounts (5% or less) of Thinner 730 may be added.
Application Details	Air or Airless spray, Brush or Roller.
Application Methods	Airless Spray - 30 : 1 pump and 0.011" tip size will provide a good spray pattern. SIPTHERM 510 is applied at 1.0 mil (25 microns) per coat. Two coats are recommended when used alone, or one coat when used over an inorganic zinc primer. In application over inorganic zinc rich primers, allow full cure of the inorganic zinc primer prior to application of SIPTHERM 510. Exposure to high temperature (≈ 200°C) is needed to achieve full curing and hardness
Cleaning of Equipment	Use Thinner 730.

Storage Information

Pack Size	5 ltr. can
Storage	Store generally in original sealed container indoors at a temperature between 5 and 40°C and relative humidity below 70%.
Shelf Life	1 Year

Safety Information

See the material safety data sheet and product label for complete safety and precaution requirements.

Disclaimer

Issue date: Feb 2019