HilonTherm 8110

Silicone Acrylic Heat Resistant

Product Description

A single component, high temperature finish based on temperature resistant silicone and acrylic resins with thermally stable pigmentation.

- Good corrosion protection and decoration properties under high temperature condition.
- Good heat resistant property, up to 260℃.
- Good color stability at high temperature.

Recommended Uses

Suitable for areas subject to high service temperature that require a coloured finish. For use in a wide range of industrial environments including petrochemical plants, power stations, oil refineries and offshore structures. For use at both new construction and as a maintenance coating. As a heat resistant finish coat for application over properly primed steelwork, to provide both corrosion resistance and decoration for steelwork under high temperature condition. Suitable for steelwork operating at temperatures up to 260℃.

Product Information

Color	Limited colour range available TH1108 Aluminium TH1102 Grey
Gloss Level	Matt
Volume Solids	40% ± 2%
Typical Thickness	25–40 microns dry (63–102 microns wet)
Theoretical Coverage	16 m^2/liter at 25 microns D.F.T.
Flash Point	25℃
VOC	557 g/liter(EPA method 24)

Surface Preparations

All surfaces to be coated must be clean, dry and free from contamination. High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil or grease, soluble contaminants and other foreign matter in accordance with SSPC–SP1 solvent cleaning.

Bare Steel	Abrasive blast clean to Sa2½ (ISO 8501–1:2007) or SSPC–SP10. If oxidation has occurred between blasting and application, the surface should be reblasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.
Primed Surface	HilonTherm 8110 can be applied over approved anti–corrosive primers. The primer surface should be dry and free from all contamination, and HilonTherm 8110 must be applied within the overcoating intervals specified (consult the relevant product data sheet). Weld seams and damaged areas should be blast cleaned to Sa2½ (ISO 8501–1:2007), SSPC SP6, or SSPC SP11, and repair the primers before the application of HilonTherm 8110.
Zinc Primers	The shop primer or other primer surface should be dry and free of all contamination or zinc salts. Ensure the zinc primer has fully cured prior to overcoating.
Others	Please consult Hilong representative.

Application

Application Condition	Surface temperature must always be a minimum of 3℃ above dew point. Good ventilation is required in confined areas to ensure proper drying. Avoid excessive film thickness, which may cause pinholes in the topcoat at high temperature. For optimum corrosion protection, HilonTherm 8110 should be applied over an inorganic zinc silicate primer. Please consult Hilong representatives for details.
Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.
Thinner	THR100
Airless Spray	Not recommended, consult Hilong representatives for details.
Air Spray	Recommended
Brush	Small areas only, typically 25 microns can be achieved
Tools Cleaner	THR100

Drying time and Overcoating interval

Temp.	10℃	15℃	25℃	40℃
Touch Dry	1 hr	45 mins	0.5 hr	10 mins
Hard Dry	3 hrs	2 hrs	1.5 hrs	45 mins
	4 hrs	3 hrs	2 hrs	1 hr
	Ext#	Ext#	Ext#	Ext#

#See the Definition and Abbreviation.

Systems Compatibility

This product is not normally topcoated, and is only compatible with a very limited number of primers.
Suitable primers are: HilonZinc 1280 (system temperature resistance 150℃), HilonZinc 1385 (system temperature resistance 250℃).
For other suitable primers, consult Hilong representatives.

Unit Size

20 litres unit: 20 litres HilonTherm 8110 in a 20 litres container.

Storage

Must be stored in accordance with national regulations. Store in dry, shaded conditions away from sources of heat and ignition.

Health And Safety

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet and the MSDS. All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

Important note

The information in this data sheet is not intended to be exhaustive, for your reference only. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. Please contact us and request the latest version prior to using the product.