SilCoat 950 TC

High temperature silicone top coat

Product Description

SilCoat 950 TC is a single component, high temperature coating, based on a moisture curing silicone binder. The moisture curing cross-linking mechanism allows multiple coats to be applied without heat curing. Suitable for temperatures up to 950°C (1742F). SilCoat 950 TC is the product of choice for in shop application as it dries to a hard durable film without the need for heat curing

Typical Use

For the protection of steel from corrosion on areas including flare stacks, chimneys, exhausts, vents and pipework, at temperatures up to 950°C (1742F) SilCoat 950 TC can be used as sealer over TSA

Technical Data

Volume Solids
42 %+ /- 2%

Colour
Aluminium, Black, and Stainless metallic. Limited number of special colours can be made to order

SG Approx.
1.19 kg/L

Temperature Resistance
950°C maximum

VOC
148 grams per Litre

Number of Coats
1 or 2

Mix ratio
N/A

Packaging
5 and 20 Lt Steel pails

Solvent
Thinner No 5

Finish
Sheen

Recommended Dry Film Thickness

	DFT per coat	WFT per coat	Theoretical Spreading rate m2/L
Range	25-40µm	58 µm - 95 µm	16.8- 10.5
Recommended	30 µm	72 µm	14

Drying times

Substrate Temperature	Touch Dry	Dry to handle	Dry to recoat Minimum	Dry to recoat Maximum	Full Cure
10°c	2 Hours	3 Hours	4 Hours	Indefinite *	8 Days
20°C	1 Hours	2 Hours	3 Hours	Indefinite *	5 Days
30°c	20 - 30 mins	1 Hours	2 Hours	Indefinite *	3 Days

Surface Preparation

Blast cleaning

The performance of this paint will depend on the degree of surface preparation. All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. The surfaces shall be blast cleaned to min. Sa 2, preferably Sa 2½ (ISO 8501-1:2007). The surface profile and the anchor pattern shall be between 40 µm and 70 µm. The abrasives shall be free from oil, grease, moisture, chloride contamination etc.

Power tool Cleaning

The performance of SilCoat 950 TC will depend on the degree of surface preparation. All coatings should be removed prior to the application of SilCoat 950TC. Surfaces should be treated in accordance with ISO 8504:2000. The surface shall be cleaned by high pressure steam/detergent cleaning to remove dirt, grease and / or salt deposits in accordance with SSPC SP1. Power-tool cleaning to St 3 (ISO 8501-1:2007). Care shall be taken to ensure that power-tool cleaning does not polish the steel surface. For optimum performance use a bristle blaster cleaning system mounted on an air-driven motor. This method will provide a surface equivalent to that provided by blast cleaning including the desired surface profile.

Mixing

Mix thoroughly with an air fed power mixer or exposion proof electric mixer

Application conditions

The surface temperature must be a minimum of 3° above the dew point. Do not apply to substrates at temperatures below 10°C. The temperature of the paint should be at least 15°C
High temperature coatings that have seen service should be mechanically abraded before over-coating to ensure good inter-coat adhesion

Application Equipment

Airless spray

Is the recommended method of application. Tip pressure at nozzle: 180 - 250 bar. Nozzle size: 0.41 - 0.58 mm.

Brush

Use only wooden-handled brush with short China bristles. Do not use synthetic-bristled brushes. Brush out thoroughly, maintaining a continuous wet edge and a uniform paint film.

Roller

Use only rollers with phenolic core, Do not flood surface with coating. Roll out thoroughly, maintaining a continuous wet edge and uniform appearing paint film.

Thinning is not normally required but 0-5% can be added if required due to application conditions

* High temperature coatings that have seen service should be mechanacally abraded before overcoating to ensure good intercoat adhesion

Clean-up

Clean up immediately after use with Thinner No 5. Discard clean up material according to local environmental regulations.

Precautions

This product is for use only by professional applicators in accordance with information in this Technical Data Sheet and the Safety Data Sheet (SDS). Refer to this product's SDS before using this material.

Material Storage

Store all coating materials in a dry place as close to room temperature as possible. Ideal storage temperature should be between 10˚C to 27˚C. Keep cans sealed and out of direct sun light when not use. Warm up cold material to room temperature before using.