T: (904) 268-4000 E: info-usa@corrocoat.com

CORROCOAT

CORROCOAT Corrocoat SEL

Product reference: 3/53

Product title: Corrocoat SEL

Valid from: February 2019

Last reviewed: May 2019

Type

A spray applied epoxy glass flake coating, intended for a single or multicoated application.

Suggested use

Corrocoat SEL will provide cost effective, durable protection in aggressive atmospheric conditions and immersed environments. Corrocoat SEL has excellent application characteristics and edge coverage in single coats. Corrocoat SEL has good cosmetic appearance and gloss. Corrocoat SEL may be used for structural steel, bridges, pilings decks, externals of process vessels/pipelines, jetties, ships hulls and other marine environments.

Limitations

Suitable for immersed service in many solvents and chemical service environments. Temperature limit immersed is 194°F (90°C) in oil with a post cure, no immersed limit is 212°F (100°C).

Health & safety

Before handling or using this product the material **safety data sheet should be read** and all precautions observed.

Surface preparation

Metals: For best results Grit blast to SSPC-SP10 (ISO 8501-1 Sa 2½) or equivalent. (For full details refer to Corrocoat Surface Preparation Specification SP1.) Corrocoat SEL can also be applied to mechanically prepared or water blasted surfaces or where Plasmet ZF has been used as a primer.

Concrete: Priming is required, see Corrocoat Surface Preparation sheet SP5, use Plasmet ECP as the primer.

Application

Airless Spray pump minimum 45:1 ratio, with an output of at least 4 litres per minute. The pump should be fitted with a Leather/Teflon seal combination and all fluid filters removed. Use nylon lined 10mm (3/8") internal bore spray line with a short 6.5mm (¼") whip and a large bore spray gun fitted with a swivel connector. 17 to 23 thou reversible spray tip is recommended. Spray tip and fan pattern will vary and should be selected to suit the nature of the work. Fluid pressure approximately 4,000PSI depending on temperature, spray line length, etc. Corrocoat Sel should not be applied or used at temperatures below 41°F (5°C).

Corrocoat SEL may be applied with a brush or short haired roller. May also be used with a chopper gun or equivalent and Glassfiber, where high tensile strength is required.

Pot life

Generally 45-60 minutes hardener at 68°F (20°C). Pot life **will vary significantly** with temperature.

Thinners

The performance of this product will be adversely affected by the use of solvent based thinners. Under normal application conditions it is not anticipated that any thinners will be required with this product.

Packaging

1 and 5 gallon composite kits. (Other sizes may be available upon request).

Hardener type

Modified Amine Adduct

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Storage life

2 years minimum in unopened tins, stored at 41-104°F (5-40°C).

Color availability

White and light grey as standard. Other colors available on request, price of material subject to color and quantity.

Note: This product is formulated to give optimum corrosion resistance. Due to the nature of the polymerization process of this product, it is not possible to guarantee color matching or color stability. Where color stability is of paramount importance, it is recommended that Corrocoat SEL is over coated with Corrothane AP1.

Recommended DFT

Dependent upon intended use, geometry of work and service conditions. Corrocoat SEL is normally applied to achieve DFT's of 8-40 mils (200-1000 microns) by applying at 10% greater WFT's. May be applied at up to 24mils (600 microns) per coat WFT) at 68°F (20°C).

Volume solids

Greater than 98%.

Practical coverage rate

Approximately 24 sf per gallons at 24 mils (0.6 litres/m^2 at 500 microns) DFT.

Note: This information is given in good faith but consumption may increase dependent on the environmental conditions, geometry, nature of work undertaken and the skill and care of application. **Corrocoat accepts no responsibility for any deviation from these values.**

Specific gravity

Mixed: 0.04lbs/cubic inch (1.12g/cm^3

Flash point

Base: 248°F
(120°C)
Activator: 253°
(123°C)

Mixing ratio

3:1 Base to Hardener by weight / weight.
Plural Spray Grade 3:1

Abrasion resistance

145.5mg/1000 Cycles (H18 wheels)

VOC level

Adhesion

Greater than 10MPa (ASTM D 4541)

Overcoating

Where multiple coats are required, over coating may take place after 4 hours at 68°F (20ºC). Wet on wet applications are acceptable. The maximum over coating time is 72 hours at 68°F (20ºC). Overcoating times will reduce significantly at higher temperatures **and/or** in strong sunlight. The minimum over coating time at 10ºC is 24 hours, refer to Corrocoat Technical Services for over coating instructions below 50°F(10ºC).

Cure time

Tack-free in 4 hours, full cure 4 days at 68°F (20ºC). Tack-free and full cure values will vary subject to ventilation and temperature.

Cleaning solvent

For best results use Corrocoat Epoxy Equipment Cleaner

All values are approximate. Physical data is based on the product being in good condition before polymerisation, correctly catalysed and full cure being attained. Information regarding application of the product is available in the Corrocoat manual. Should further information be required, please consult Corrocoat Technical Services. Unless otherwise stated, all data is quoted at 20°C.