



Technical Data Sheet – Four Silicons Compound (FSC)

Description:

Innovative technology that combines selected materials to create a transparent protective layer that repels water and moisture, providing active anti-corrosion properties.

FSC introduces a unique silicone coating that combines and uses the properties of each component separately, creating a new silicone matrix blend that nails it at the top end of this group.

FSC produces a thin layer that acts as an active moisture and water barrier and prevents corrosion and damage to technical systems, sensitive components and systems where an effective barrier is needed.

FSC is applied in one layer, with a controlled thickness, and is easy to spray, roll, and brush.

Reflective additives can be added for QA controlling the coating quality layout on the surface.

- Monocomponent coating
- Fast curing at room temperature
- Protection against humid environments
- UV fluorescent
- Remains soft, no masking necessary

Markets:

Automobile factories, manufacturers of technical devices of all kinds, airborne systems, marine uses, vehicles, control and measurement devices, and wherever protection is required.

Four Silicons Compound as liquid for application:

Density @20°C: 0,693 g/ml

Viscosity @20°C: 4 cSt

Non-volatile residue: 2,5% (VOC: 97,5%)

The liquid is flammable!

Application instructions:

The product is ready for use.

Use a jetter, airless, brush, roller or spray to apply one thin layer to a clean surface free of dust and dirt.

The material must be shaken, stirred or pumped before use as it will separate during storage.

Typical parameters for atomized spray coating:

Nozzle type: Variocoat V2.2 0,70 mm

Nozzle height (distance from nozzle to substrate): 5 to 50mm

Gantry speed (nozzle speed): 50 mm\s

Canister pressure: 0,3 bar

Atomization Pressure: 0,3 bar

Area spacing (distance nozzle moves between passes): 5 mm

Drying time: Maximum a few minutes, depending on the ambient temperature. The drying is very fast at room temperature.

Four Silicons Compound as dried coating layer:

Typical layer thickness when spraying: 25 µm

Temperature range, heat stability: -40 °C to +200 °C

Surface energy: 23 to 33 mN/m

Auto-extinguishing: Yes, according to UL94-V0

The coating is transparent and can be applied directly to light emitting devices.



Cleaning tools: Water or warm water for faster cleaning

Means of protection: Use gloves and goggles.

Packaging: 3.8L gallon

Storage: 1.5 years in the original closed pack kept in a shaded storage 3°- 40°C.

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