

Product Data Sheet
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Prokem
SPECIALITY CHEMICALS

SURFAGUARD M

Water Based, Nano Emulsion For Corrosion Protection Of Metal Surfaces

Description

It is a water based, nano emulsion for corrosion protection up to 10 times and metal surface pretreatment for increasing paint adhesion. The nano particles and corrosion inhibitors creates an impermeable layer against humidity and oxygen. It used for ferrous metals as C-steel, cast iron, galvanized steel and stainless steel also for aluminum and zinc alloys.

Where to use

- Protects ferrous metals (such as carbon steel, cast iron, galvanized steel and stainless steel), aluminum and zinc alloys.
- Corrosion protection of reinforcing steel bars.
- Passivates existing rust.
- Prevents fretting corrosion.

Advantages

- Inhibits corrosion and rust formation even in extreme environments (e.g. marine, high temperature).
- Extends the lifetime of the metal.
- Enhances adhesion with other coatings and cement.
- Application by dipping, brushing or spraying.
- No need for heat treatment.
- Water-based (Low VOC).
- Cost-Effective.

Properties

Form	Water suspension
Density	1.23 gm/cm ³
Viscosity	2 cp
VOC	12 g.L ⁻¹
Immorsion at 5% Nad for 250 hours	Passes
Humidity 90-95% at 48°C for 1000 hours	Unaffected

Salt droplet test (%losing weight)	0.18 gm/m ²
Corrosion rate	0.043 mm/year

How to Use

Surface preparation:

- The application surface should be dry and clean.

Mixing:

- Shake or stir the container before use.

Application:

- Prior to application clean the surface with a cleaner or solvent.
- Apply SurfaGuard M by: a) immersing the metal for 3-10 minutes, or b) spraying 2 coats generously, or c) applying 2 coats by brush or roller.
- Remove excess of the material after application and let the material to dry and cure (up to 2 hours at ambient temperature).

Theoretical Coverage:

Estimated consumption rate 5-8 m²/L, strongly dependant on the application method.

Packaging:

1Kg, 5Kg, 12Kg, 35Kg Containers, 1200Kg IBC

Shelf Life & Storage:

SURFCGUARD M has a shelf life of 24 months at least when stored in normal dry condition.

Health and Safety

- Care should be taken to avoid inhalation of dust and to prevent material entering the eyes.
- Use goggles-gloves and a breathing mask when applying.
- Apply forced ventilation in confined spaces.
- Remove splashes from skin with hand cleanser or soap and water.
- Eye splashes to be washed with plenty of water.



Additional Information

PROKEM provides the construction industry with a comprehensive range of construction Chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** extends technical services to include after sales support to assist users in a proper handling of our products.

