



MetalSafe™ B-300

Waterproofing & Corrosion Protection

METALSAFE™ B-300

Product Description

MetalSafe™ B-300 is an elastomeric coating that provides exceptional corrosion and waterproofing protection for a variety of metal surfaces.

Spray applied in conjunction with an inorganic rapid-set accelerator, MetalSafe™ B-300 instantly forms a rubberized, fully adhered seamless membrane that resists cracking, aging and separation. MetalSafe™ B-300 combines a high resistance to the elements and anti-corrosive and waterproofing properties all in one coating to provide a unique and highly effective roofing solution.

Application of the Membrane

MetalSafe™ B-300 is applied using the HVLP 2000, a dual diaphragm pump system, that is easy to use and has been specifically designed for instant-setting capability.

MetalSafe™ B-300 is sprayed concurrently with an inorganic salt solution which transforms the product as a liquid into a continuous rubberized membrane as it makes contact with the metal surface.

- Seamless waterproof membrane
- Can be applied to lightly rusted or corroded surfaces
- Highly resistant to salts, chemicals and acids
- Fully bonded to the metal substrate so water will not run beneath the membrane
- Cold-applied & water-based for increased worker safety
- No VOC content or harmful odors
- Freeze/Thaw stable so it can be stored at any temperature

Drying time

At 25 °C and 50% relative humidity, MetalSafe™ B-300 fully cures in 24-48 hours. Curing time increases in colder temperatures or higher humidity so environmental conditions must be considered before application.

Packaging

MetalSafe™ B-300 is available in:

- 1000 litre totes (IBCs) (265 Gal)
- 205 litre plastic drum (55 Gal)

Physical Properties (liquid)

Color (Liquid)	Brown to Black (cured)
Specific Gravity	Approx. 1.03
Volatile organics	Contains no solvents
% solids (wt) (Liquid)	60 - 63%
Viscosity cP	200 cP

Physical Properties (membrane)

Water Absorption EN 1062-3	0.002% w/w
Water Vapor Permeability ASTM E 96	0.071 ng/m/Pa/s
Salt fog corrosion ASTM B 117-97, 1000 hrs	Passed (no creep back)
Accelerated Weathering (Xenon arc)	No degradation, 250 hrs UV weatherometer
Adhesion to Galvanized Steel	31 psi 5300 Newton/m
Tensile strength	>150 psi
Elongation	>900%
Hardness Shore A	22-25
Working Temperature	-40°C to +80°C

Suitable Applications include but are not limited to:

- Commercial and Residential Metal Roofs
- Harsh Environments including mining, Pulp & Paper, and Processing Plants
- High Saltwater Climates

Limitations & Warranty

- Do not apply to dirty or contaminated surfaces
- Do not apply below 0°C
- Avoid contact with solvents and solvent type adhesives

MetalSafe Coatings Inc. warrants its membranes to be free of manufacturing defects. Since methods of application and on-site conditions are beyond our control and can affect performance, MetalSafe Coatings makes no other warranty, express or implied with respect to its membranes.