

Metal Guard

Anti-corrosion, and anti-microbial coating for metal surfaces.

Description

Metal Guard is the ultimate epoxy fouling-release coating. It is a low-friction, superior release and long-lasting nanotechnology-driven coating. **Metal Guard** contains no tin (IV) and is based on PolyDiMethylSiloxane modified epoxies, the latest advance in metal coatings. Apart to the amphiphilic behavior of the modified epoxies and enhanced durability, they are coupled with glycol units to finely tune surface tension values that repel proteins or microorganism biological anchors. **Metal Guard** saves fuel costs by reducing the drag coefficient of a treated surface.

Recommended Use

Ideal for use as a metal protectant to protect against graffiti, stains and corrosion.

Key Benefits

- Anti-corrosion
- Easy to apply; single-coat application
- Self-leveling finish
- Ultra-hydrodynamic

Film Thickness per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	75	125	100
Wet Film Thickness (µm)	94	156	125
Coverage Rate (m²/L)	10.6	6.4	8

Drying times differ in minimum or maximum values. Maintain recommended values during application. Coverage rate is theoretical and does not include any losses.

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Technical Specifications

Form/Type:	Silicone Epoxy
Color:	Transparent
Components:	Part A Base & Part B Hardener
Thinner / Cleaning Solvent:	Armus Thinner A
Mixing Ratio:	4:1, A:B per volume
VOC:	<240 g/L
Solids (%vol.):	80 ± 3
Maximum Pot Life:	6h @ 68°F (20°C)
Touch Dry Time:	3h @ 68°F (20°C)
Dry Through Time:	12h @ 68°F (20°C)
Minimum Recoat Interval:	24h @ 68°F (20°C)
Minimum Time to Inversion:	24h @ 68°F (20°C)
Induction Time:	15min @ 68°F (20°C)
Flash Point:	>73.4°F (23°C)
Water Resistance:	Excellent
Abrasion Resistance:	Excellent

Surface Preparation

Compatible Coats: All surfaces should be clean, dry, and free from oil, grease and other foreign matters or contamination. Prepare according to ISO 8502-3:1992 Test for the assessment of surface cleanliness.

Application

Conventional Spraying:	Paint pressure pot with power agitator, double air regulators, moisture trap, 1/2" ID fluid hose, 5/16" ID air hose, DeVibiss 510 gun, "E" tip and needle, 74 or 78 air cap.
Airless Spray:	Minimum pump: 30:1, Nozzle: 19-23
Brush:	Recommended application method only for stripe coating or small narrow areas

Substrate temperature should be minimum 41°F (5°C) and at 37.4°F (3°C) above air dew point. Good ventilation is required to ensure proper drying.

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Coverage

Product	DFT (µm)	Coverage (sq.ft. / gal)	Coverage (m2/lit)
Epoxy Primer (1 st full coat)	80	407	10.0
Epoxy Primer (2 nd full coat)	80	407	10.0
Metal Guard (1 st full coat)	100	325	8.0
Metal Guard (2 nd full coat)	100	325	8.0

Metal Guard can be applied directly on the construction material GRP-FRP **without the use of primer**.

Product	DFT (µm)	Coverage (sq.ft. / gal)	Coverage (m2/lit)
Metal Guard (1 st full coat)	150	224	5.5
Metal Guard (2 nd full coat)	150	224	5.5

Storage

Store only in the original container. Store the containers sealed, in a cool and well-ventilated place. Keep away from direct sunlight. Keep far away from sources of heat, open flame and sparks and other sources of ignition. Keep containers away from any incompatible materials.

Available Packaging

- 5.3 gal. (20L) in 2pc Metal Canister Combination (4:1, A:B per volume)
- 1.32 gal. (4L) in 2pc Metal Canister Combination (4:1, A:B per volume)
- 0.5 gal. (2L) in 2pc Metal Canister Combination (4:1, A:B per volume)

- Notes & Precautions:** Adverse weather conditions during or after the product application may affect the properties of the coating. Store closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 41°F to 95°F (5°C to 35°C), for up to 18 months.
- The Technical Data Sheet should be read in conjunction with the Safety Data Sheet. The current edition of this technical data sheet automatically cancels any previous one concerning the same product. For more information, please contact Armus: info@armussolutions.com
- The Technical Data Sheets and the recommendations for using Armus products are based on our scientific knowledge, laboratory studies, and long-term experience. Therefore, the information provided must be considered indicative and subject to constant review in relation to the circumstances and each practical application. Furthermore, the product's suitability should be examined in each case for each specific use.
- The end-user bears complete & exclusive responsibility for any side effects that may arise from the incorrect use or storage of the aforementioned product.