

OptiMastic AL

Optima Coatings OptiMastic AL is a high-solids, surface tolerant, maintenance aluminum epoxy coating with exceptional corrosion protection for use in industrial and marine environments. OptiMastic AL gives superior performance on mechanically cleaned surfaces with special wetting agents to penetrate the substrate over minimal surface preparation. OptiMastic AL can be over coated with a wide variety of topcoats and is compatible with most existing sound coatings.

Colours: Aluminum Semi-Gloss (Epoxies lose gloss in sunlight)

PRODUCT USES

- Optima Coatings OptiMastic AL is recommended for a variety of areas where surface preparation is limited.
- Suitable for use in industrial and marine environments.

ADVANTAGES

- Excellent adhesion to a wide range of substrates.
- Good chemical resistance to splash and spillage, fume and immersion in neutral fresh and salt water.
- Fast curing.
- High volume solids.
- High build coating for greater protection.
- Can be used as a topcoat.
- Minimal surface preparation required.

COVERAGE

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| • Percentage volume solids: | 90%+ _2% |
| • Recommended dry film thickness per coat: | 125 microns |
| • Theoretical Coverage: | 7.2 m ² /liter at 125 microns DFT |

SURFACE PREPARATION

- Substrates differ significantly, and so all new applications should be tested first.
- All surfaces must be sound, dry and free of oils, greases and loose rust.
- Proper preparation is critical to ensure an adequate bond.
- Power tool clean in accordance with ST 3 or SSPC-SP3 or hand tool clean accordance with ST2 or SSPC-SP2.
- Remove all loose rust, dirt, oil and grease or other contaminants from the surface. If possible, grit-blast cleaning is preferred.
- Water blasting is also acceptable.
- For immersion in fresh water and seawater conditions grit-blast cleaning is recommended to SA3.

APPLICATION

Apply by brush, roller or spray.

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| Roller type: | Short mohair roller. |
| Spray: | Conventional or airless spray using a 0.013 – 0.019" (0.3 – 0.5mm) nozzle and air pressure of 2100 psi |
| Mixing ratio: | 1 parts base to 1 parts activator by volume |
| | Mix separately, then combine and mix well. No induction period is required. |

Thinning:	Optima Epoxy Thinner
Substrate Temperature:	min: 10°C, max: 40°C
Ambient Temperature:	min: 10°C, max: 50°C
Relative Humidity:	min: 0%, max: 90%

Do not apply when the surface temperature is less than 2°C above the dew point.

Drying Time:	Temperature	Touch Dry	Hard Dry	Over Coating Time
	10°C	16 hours	72 hours	24 hours
	20°C	6 hours	24 hours	10 hours
	30°C	4 hours	10 hours	8 hours

Full cure for immersion conditions 7 days at 24 °C

Pot life at 20°C: >1 hours

NON-IMMERSION SERVICE

Grit-blast to a near white metal in accordance with ISO 8501 Sa2½ to obtain a 40 to 75 micron blast profile.

IMMERSION SERVICE

- Grit-blast clean to a White Metal Finish in accordance with ISO 8501 Sa3 to obtain a 40 -75 micron blast profile.

STORAGE

- Store indoors away from direct sun at temperatures not exceeding 40°C.

CLEANING

- MEK or Xylene for cleaning

SAFETY PRECAUTIONS

- Use in a well-ventilated area with fresh-air respirators or fresh-air hoods.
- Ensure build-up of fumes does not occur.
- When used in a closed area e. g internal lining of tanks, air circulation must be arranged.
- Fumes are flammable (flash point <27°C) and all spark sources must be removed or isolated.
- Hypersensitive people should wear protective clothing, gloves and/or barrier cream of face, hands and all exposed areas.

TECHNICAL DATA

Number of Components:	Two Component
Pack Size:	2 Lt and 10 Lt
Volume solids:	90% + _2%
Recommended D.F.T.:	Min: 75 micrometers Max: 250 micrometers Typical: 125 micrometers
Recommended W.F.T.:	Min: 89 micrometers Max: 333 micrometers Typical: 139 micrometers
Spreading rate: (Theoretical)	7.2m ² /l at 125 microns D.F.T. at stated volume solids
Colour:	AluminumSemi Gloss (Epoxies lose gloss in sunlight.)
Thinner	For Spray applications, may not be thinned more than 20% with Optima Coatings Epoxy Mastic
Thinner by volume.	

Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.

Updated: June 2015 (this supersedes all previous publications)