

Silent Running™

Specifications

Product Name	Silent Running
Product ID	SR 1000 Marine Coating
Description	Silent Running is a spray-able, highly efficient, visco-elastic sound damping coating that can be applied to different substrate materials.
Features	IMO Certified Lloyd's Certified Excellent Loss Factor Easy Application Quick Dry and Cure Time Adheres to most surfaces
Base	Monolithic Single Component Water Based Latex Polymer Acrylic
Gloss	Flat
Colors	Off white, Grey, Black Custom colors on request
Priming	Primer not required on non-ferrous materials Primer recommended for steel to prevent flashing.
Weight Wet	12.9 lbs/gallon 1.46 kg/liter
Weight Dry	0.195 lb/ft ² @ 20 mils DFT 0.95 kg/m ² @ 0.5 mm DFT
Solids Content	~75% (by volume)
Average Coat Thickness	20 mils WFT (69° F-135°F) 0.5 mm WFT (20.6° C-55.6°C)
Practical Dry Coverage Rate	42.12 ft ² /gal @ 20 mils DFT (20% loss factor) 1.2 m ² /ltr @ 0.5 mm DFT (20% loss factor)
Flash Point	None
VOC Content	Very Low
Storage	Do not subject product in its liquid form to freezing conditions. Store at temperatures between 60-90°F (15-32°C)

Surface Preparation

Surface Preparation	Surface should be clean, dry, oil and dust free. A light 80# cross hatch pattern is preferred.
Ferrous Surfaces	Surface should be primed prior to coating with Silent Running to prevent flash rusting.
Non-Ferrous	Silent Running can be applied directly to non-ferrous surfaces without priming or etching.

Application Equipment

The following are general application guidelines for Silent Running.

Airless Sprayer	Pump Ratio: 45:1 or greater Volume: 0.75 gpm (0.2 lpm) or greater Hose: 3/8" or larger, 1/2" recommended for lengths greater than 50' Tip Size: 0.019-0.023" Pressure: Minimum 2500 PSI Filters: Remove all filters
Pressure Pot	Pressure: 50 PSI (pot) 40 PSI (gun) Tip Size: 66SD (air) 66SS (fluid) Needle: 565
Small Sprayer	Call for details, excellent for small areas and touch up.
Brush or Roller	Call for details, only recommended for small areas and touch up.

Application Conditions

Temperatures	Product: 60-90°F (15-32°C) Surface: 60-90°F (15-32°C) Call for information regarding applications in lower or higher temperatures.
Application	First coat should be a "tack" coat of 10 mils (0.25mm). Subsequent coats can be up to 20 mils (0.5mm) WFT. All coats should be dry to the touch prior to over coating.
Application	Product can be applied in multiple coats to increase damping properties.
Dry Fall	10 foot dry fall drop



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Coating Specifications

Test Type	Result	Test Method
Salt Fog	Pass	ASTM B117
Water Immersion	Pass	ASTM D870
Adhesion	5A	ASTM D3359
Flame Spread	5	ASTM 162
Smoke Density*	8 / 1	ASTM 662

* 8 is in flaming mode, 1 is in non-flaming mode

Mixing & Thinning

Mixing	Use a mud paddle on a ½" drill motor in reverse to avoid getting pieces of the bucket mixed into the product.
Thinning	Thinning is not recommended. Please call if thinning is needed.
Pot Life	Silent Running is a one part coating, therefore there is no catalyst required. As long as fresh product is added to the pot, the pot life is virtually indefinite. Unused product can be poured back into the container and re-used. Container must be properly re-sealed.
Container	5 gallon container (18.92 liters)

Package, Handling & Storage

Container	5 gallon pail 18.92 liters
Weight (gross)	72.5 lbs per pail (5 gallons) 32.88 kg per pail (18.92 liters)
Weight (net)	64.5 lbs per 5 gallons 29.25 kg per 18.92 liters
Storage	Storage area temperature should be kept between 50-90°F (10-32°C) in a tightly sealed container. Keep out of direct sunlight to avoid over heating.
Shelf Life	One year from date of manufacture.
Caution	Do Not Let Product Freeze

Cleanup & Safety

Cleanup	Warm water and soap while wet.
Safety	Half mask respirator and eye protection recommended.
Ventilation	Recommended for enclosed areas
Clothing	Safety clothing and gloves recommended

Examples

- Spray-able solution to time consuming conventional damping materials such as Constraint Layer Damping.
- Lowers the weight of a vessels design while increasing loss factor.
- Spray applied to 100% of the targeted area unlike glue on or fastener systems which at the most can only get to 70% of the substrate.
- Assists in reducing noise level levels to the required comfort standards of IMO regulations.

Specified

- VOC Compliant, water based, non-toxic coating
- High performance, visco-elastic coating used as a damping solution.
- Disperses vibration energy by converting to a very low grade heat and dissipating over the applied surface.
- Can be used on all interior surfaces, including; shell plating, stiffeners, bulkheads, bow thrusters, tube, engine foundations, decking, ventilation systems, overheads and superstructures.
- Will not chip, crack or peel due to expansion or flexing of the substrate to which it is applied.
- Resistant to oil, gas and most chemicals.
- Dries to a hard surface while retaining excellent elongation.
- Non-flammable, self extinguishing should it come in contact with flame.
- Saves weight, labor, space and time.

SR 1000 Marine Coating has been awarded:

- United States Coast Guard Approval
USCG Approval No. 164.112/74/0
- Accreditation by the Member States of the European Union
European Union Approval No. 1408/04
- Meets or exceeds Section 10 of the IMO Resolution A.653(16) and Resolution MCS.61(67) for flammability and toxicity.
- Lloyd's Certification No. SAS F060023

