



Silent Running Sound Damping Coating™ (SR 1000)

Current Inc.

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SR 1000: Spray Applied Free Layer Sound Damping Coating for use within High Production Shipbuilding - A highly efficient light weight spray-able visco-elastic sound damping coating used for noise reduction on steel, aluminum and composite substrates.

TECHNICAL DATA

Color Off white

Odor No odor after curing

Density 1350 kg/m³

Solid Content: 75%

Viscosity 400+/-100 mPas

Flash Point > 200°F

Apply at 60°F - 110°F

Storage Temp Do not freeze

Shelf Life One year

Lloyd's Registry #: SAS F060023

WEIGHT

20mils = 0.200lbs/ft²

0.5mm = 0.976kg/m²

PRACTICAL DRY COVERAGE RATES

48.12 ft² / gallon @ 20mils DFT with a 20%Loss Factor

1.20 m² / liter @ 0.5mm DFT with a 20%Loss Factor

Note: Meets or exceeds Section 10 of IMO Resolution A.653(16) for flammability and IMO Resolution MSC.61(67) for toxicity.

DESCRIPTION: SR 1000 is a water-based, non-toxic damping compound with a very high loss factor. The product has excellent adhesion to most materials and it is virtually waterproof after curing.

USES: SR 1000 should be used as spray on damping solution to reducing noise and vibration on such substrates as steel, aluminum and composites substrates. Specifically beneficial to High Speed Light Weight Craft.

EXAMPLES

1) Spray-able solution to time consuming conventional damping materials such as Constraint Layer Damping (CLD's)

2) Lower the weight of a vessels design while increasing the loss factor.

3) Spray applied to 100% of the targeted area unlike glue on or fastened systems which at the most can only get to 70% of the substrate.

4) Assist in reducing noise levels to the required comfort standards of IMO regulations.

Application of the Product: The surface must be dry and free from grease, dirt or rust. Lightly hand sand or wash wipe down with diluted vinegar in water for better adhesion. The drying time at room temperature is approximately 30 minutes to 1 hour (depending on Wet Film Thickness and relative humidity) but can be improved by the use of low heat and air movement. The curing process consists of two (2) steps. The water will dissipate during the first hour (product becomes dry to the touch), which will be followed by the final curing of the polymer. The second curing process takes approximately 24 to 48 hours. Refer to Application Notes for coating thickness.

SPECIFIED

- VOC compliant, water based, non-toxic coating.
- High performance; visco-elastic coating that is used as a damping solution to reducing 2nd Born Structure Noise.
- Monolithic single component water based polymer emulsion.
- Excellent adhesion properties to all types of substrates as a free layer damping solution.
- Easily applied by using an airless sprayer, brush or roller and clean up is quick with water.
- Takes the 2nd Born Structure vibration disperses it over the surface turning the energy to low grade heat.
- Spray applied on internal shell plating, bulkheads, bow thrusters tubes, engine foundations, decking, ventilation systems, overheads and super structures.
- Used on internal shell plating, stiffeners, engine foundation, bulkheads, overheads, hatches, bow thruster tubes, generator enclosures, ventilation systems, super structures, decking.....
- Can be used on all substrates within high production shipbuilding.
- Applied directly to aluminum and steel needs only existing buff primer.
- Will not chip or crack due to expansion or flexing of the substrate to which it is applied. Saves Weight, Labor, Space and Time.
- Covers 40 to 50 square feet per gallon depending on Loss Factor(Consult with a representative to gather further details)
- Resistant to gas, oil and most chemicals.
- Dries to a hard surface while retaining excellent elongation
- Non-flammable; self extinguishing should it come in contact with flame.
- Dries to an off-white color while brightening enclosed areas.

SR 1000 Marine Coating has been awarded

United States Coast Guard Approval

Accreditation by the Member States of the European Union

USCG Approval No.164.112/74/0 1408/04

European Union Approval

U.S. Coast Guard Approval No. 164.112/74/0, European Union Approval No. 1408/04

Meets or exceeds Section 10 of the IMO Resolution A.653(16) and Resolution MSC.61(67) for flammability and toxicity

Silent Running™ SR 1000 Marine Coating

- ✓ **Water Based and Non-toxic**
- ✓ **Non-Flammable, Self Extinguishing**
- ✓ **Easy Application, Spray, Brush or Roller**
- ✓ **Quick Clean-up with Water**
- ✓ **Permanent Damping Coating Solution**
- ✓ **Wide Temperature Range:-30°F to 250°F**
- ✓ **Excellent Adhesion with High Impact**