



Void & Rudder Float Coat

Technical Data Sheet

Date of Preparation: December 23, 2025

DESCRIPTION

S2S Void & Rudder Float Coat polar bonds to metal surfaces, forming a long-lasting, self-healing fluid thin film designed for corrosion protection in marine void spaces and enclosed compartments. When applied using the float-coat (fill-and-drain) method, the product rises through water to contact and protect all wetted metal surfaces, including wet, dry, painted, and rusted substrates.

Void & Rudder Float Coat penetrates and de-scales existing rust, displaces moisture, and provides high dielectric strength to help reduce galvanic interaction and stray-current-related corrosion in void spaces.

FEATURES

- Designed for float-coat (fill-and-drain) application
- Self-healing, fluid thin film
- Displaces water and oxygen from metal surfaces
- Penetrates and de-scales existing rust
- Application does not require sandblasting or confined-space entry
- Compatible with wet, dry, painted, and rusted metal
- High dielectric strength
- Low VOC formulation

USES

Ventilated and unventilated void spaces on marine vessels, including rudder trunks, stern compartments, cofferdams, tanks, and other enclosed structural spaces where corrosion protection is required.

APPLICATION

Shake or stir product before use.

1. Calculate product requirement. For a typical application, approximately 1 gallon will coat 200 sq. ft. Add 20% to the final calculation. Coverage varies by surface condition, geometry, and film thickness. Allow additional product volume for heavily rusted or complex structures. Prepare the surface by removing loose dirt, debris, and degreaser. No sandblasting is required. The product may be applied to damp, rusted, or painted surfaces.
2. Add product. Introduce Void & Rudder Float Coat into the void prior to filling with water.
3. Fill with water. Slowly fill the compartment from the bottom to minimize turbulence. The product will float on the water surface and polar-bond to contacted metal surfaces as the water level rises.
4. Dwell time. Allow the system to remain filled for 24 hours to ensure full wetting and film formation.
5. Drain. Drain water slowly from the bottom of the compartment. Screens may be used to capture rust scale or debris, if present

For units with heavy rust scale, extended dwell time or a second fill-and-drain cycle may be beneficial.

Painting over S2S Void & Rudder Float Coat is not recommended, as paint adhesion may be reduced.

PERFORMANCE TESTING

- Exhibits excellent corrosion protection in humidity-prone environments (ASTM D665).
- Exhibits excellent load-carrying and anti-wear performance (ASTM D2783).

Supporting technical data is available upon request.

S2S is a  VALKYRIE owned and distributed product

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TECHNICAL PROPERTIES

Typical Properties, Not Specifications

Property	Typical Value	Test Method
Base Type	Petroleum	—
Viscosity	Approx. 30–40 cSt at 40 °C (104 F)	ASTM D2196
Relative Density	0.87 (water = 1) at 15.6 °C (60.1 F)	ASTM D4052
Flash Point	154 °C (309 F)	ASTM D92
Pour Point	–24 °C (–11 F)	ASTM D97
Dielectric Strength	>40 kV	ASTM D877
Burning Characteristics	Does not sustain burning	ASTM D4206
VOC Content	0.1% by weight	—

REMOVAL

The product does not typically need to be removed. If desired, wash with a high-pH detergent and water.

DISPOSAL

Dispose of contents and container in accordance with applicable regional, national, and local laws and regulations.

STORAGE

Store in a well-ventilated place at room temperature.

Shelf life: 3 years.

AVAILABLE PACKAGING

1 gal / 3.78 L

5 gal / 18.9 L

55 gal / 205 L

All information on this data sheet is based on testing by Valkyrie Enterprises. All products should be tested for suitability for a particular application prior to use. Valkyrie makes no representations or warranties of any kind concerning this data. Supporting technical data is available upon request.

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