



# HD Corrosion Shield

## Technical Data Sheet

Date of Preparation: December 23, 2025

### DESCRIPTION

S2S HD Corrosion Shield is a thick-film, anti-corrosion coating formulated to provide long-term protection against rust and corrosion on exposed metal surfaces. It forms a persistent, water-resistant barrier that protects metal from moisture, humidity, and salt-laden environments.

S2S HD Corrosion Shield polar bonds to metal surfaces and can be applied to damp, painted, or rusted substrates without sandblasting. The product remains flexible and does not require curing.

### FEATURES

- Requires minimal surface preparation
- Bonds to ferrous and non-ferrous metals
- Displaces water and oxygen
- Is compatible with rubber, plastics and electronic components
- Provides long-term corrosion protection in harsh environments
- Requires no curing time
- Forms a thick, persistent protective barrier
- Offers a wide operating temperature range
- Removes with high-pH detergent and water

### USES

- Equipment and parts in storage
- Goods in transit
- Structural steel
- Support bases
- Wellheads
- Drill rigs
- Fittings and flanges
- Pipelines and piping
- Exposed metal surfaces in industrial and marine environments

### APPLICATION

Shake or stir product before use.

1. Calculate product requirement. Each gallon will cover approximately 100 sq ft of surface area. Typical coverage varies by surface condition and film thickness. For heavily rusted or porous surfaces, more product may be needed.
2. Prepare surface by removing loose dirt, debris, and degreaser. No sandblasting required. Product may be applied over damp, rusted, or painted surfaces.
3. Apply evenly by spray, brush, roller, or immersion, ensuring welds, cracks, and corners are fully coated. No curing time required.
4. Inspect annually and reapply if the protective film appears dry or diminished.

Painting over S2S HD Film is not recommended, as adhesion may be reduced.

### PERFORMANCE TESTING

- Demonstrates extended corrosion protection in salt-spray environments (ASTM B117).
- Passes rust prevention testing under humidity exposure (ASTM D1748).
- Passes rust prevention characteristics testing (ASTM D665).

Supporting technical data is available upon request.

S2S is a  VALKYRIE owned and distributed product

[www.valkyrie.com](http://www.valkyrie.com) - [corrosioncontrol@valkyrie.com](mailto:corrosioncontrol@valkyrie.com)



Valkyrie Enterprises



@Valkyrie2007





# HD Corrosion Shield

## Technical Data Sheet

Date of Preparation: December 23, 2025

### TECHNICAL PROPERTIES

Typical Properties, Not Specifications

| Property                | Typical Value                      | Test Method |
|-------------------------|------------------------------------|-------------|
| Physical Form           | Liquid                             | —           |
| Base Type               | Petroleum                          | —           |
| Viscosity               | Approx. 20,000 - 25,000 cP @ 25 °C | ASTM D2196  |
| Relative Density        | 0.90 (Water = 1) @ 15.6 °C         | ASTM D4052  |
| Flash Point             | Approx. 78 °C                      | ASTM D93    |
| Pour Point              | 6 °C                               | ASTM D97    |
| Dielectric Strength     | >3 kV                              | ASTM D877   |
| Burning Characteristics | Does not sustain burning           | ASTM D4206  |
| VOC Content             | Approx. 0.33% by weight            | —           |

### REMOVAL

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: 18 months.

### AVAILABLE PACKAGING

1 gal / 3.78 L

5 gal / 18.9 L pail

55 gal / 205 L drum

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.

S2S is a  VALKYRIE owned and distributed product

[www.valkyrie.com](http://www.valkyrie.com) - [corrosioncontrol@valkyrie.com](mailto:corrosioncontrol@valkyrie.com)



Valkyrie Enterprises



@Valkyrie2007





# Corrosion Shield - Aerosol

## Technical Data Sheet

Date of Preparation: December 23, 2025

### DESCRIPTION

S2S Corrosion Shield aerosol is a thin-film corrosion inhibitor and penetrant designed to protect metal components from rust and corrosion while providing lubrication and anti-seize performance. It penetrates into tight tolerances, threads, seams, and contact points to displace moisture and inhibit corrosion in industrial, automotive, and marine environments.

The product forms a persistent, self-healing protective film that helps reduce galvanic interaction and corrosion caused by humidity, condensation, and environmental exposure. It is suitable for use on a wide range of electrical components and connections where moisture intrusion and corrosion are concerns.

### FEATURES

- Thin-film corrosion inhibitor and penetrant
- Penetrates threads, seams, and tight clearances
- Displaces moisture and oxygen
- Helps free seized and corroded components
- Provides anti-seize and lubricating properties
- Forms a non-hardening, self-healing protective film
- Provides dielectric protection to help reduce galvanic interaction
- No curing time required
- Suitable for ferrous and nonferrous metals

### USES

• Fasteners, bolts, and threaded connections • Hinges, pins, and mechanical joints • Seized or corroded components • Industrial equipment and machinery • Automotive and fleet maintenance • Marine hardware and fittings • Tools and shop equipment

### APPLICATION

1. Shake can well before use.
2. Remove loose dirt, debris, and heavy contamination prior to application.
3. Apply by spraying evenly onto the surface from an appropriate distance. Allow the product to penetrate into threads, seams, and contact points. For heavily corroded or seized components, allow additional dwell time and reapply as needed.
4. No curing time is required.
5. Inspect periodically and reapply as needed to maintain protection.

### REMOVAL

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







# Corrosion Shield - Aerosol

## Technical Data Sheet

Date of Preparation: December 23, 2025

### DISPOSAL

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

### STORAGE

Store in a cool, well-ventilated place away from heat and ignition sources. Shelf life 3 years.

### TECHNICAL CHARACTERISTICS

TYPICAL CHARACTERISTICS — NOT SPECIFICATIONS

- Film type: Thin-film corrosion inhibitor and penetrant
- Film behavior: Non-hardening; self-healing
- Corrosion protection mechanism: Moisture displacement and barrier protection
- Lubrication function: Reduces friction and helps prevent seizure
- Electrical behavior: Provides dielectric protection to help reduce stray-current-related corrosion
- Cure time: None

### AEROSOL SAFETY INFORMATION

- Flammable aerosol: Category 2
- Pressurized container; do not puncture or incinerate

### AVAILABLE PACKAGING

12 oz / 340 g

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

S2S is a  VALKYRIE owned and distributed product

[www.valkyrie.com](http://www.valkyrie.com) - [corrosioncontrol@valkyrie.com](mailto:corrosioncontrol@valkyrie.com)



Valkyrie Enterprises



@Valkyrie2007





# Corrosion Shield

## Technical Data Sheet

Date of Preparation: December 23, 2025

### DESCRIPTION

S2S Corrosion Shield polar bonds to metal surfaces, forming a long-lasting, self-healing fluid thin film. It penetrates and de-scales existing rust, loosens and lubricates seized parts, and provides high dielectric strength to help reduce galvanic interaction and stray-current-related corrosion on treated surfaces.

S2S Corrosion Shield can be applied by roller, brush, spray, or immersion. It can be applied to damp, painted, or rusted surfaces and requires no sandblasting or curing time.

### FEATURES

- Low VOC formulation
- Bonds to metal surfaces
- Penetrates and lubricates to the core
- Non-tacky film that does not flake or peel
- Reduces wear by resisting dirt and abrasive contamination
- Removes easily with high-pH detergent and water
- Compatible with most rubber and plastics
- High dielectric strength

### USES

- Manufacturing equipment • Tools • Fittings and flanges • Electronics • Circuit boards • Battery terminals
- Electrical connectors • Conductors • Contacts • Electric motors

### APPLICATION

Shake or stir product before use.

1. Calculate product requirement. Each gallon will cover approximately 200 sq. ft. Typical coverage varies by surface condition and film thickness. For heavily rusted or porous surfaces, additional product may be required.
2. 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.
3. Apply evenly by spray, brush, roller, or immersion, ensuring welds, cracks, and corners are well coated. No curing time is required.
4. Inspect annually and reapply if the protective film appears dry or diminished.

Painting over S2S Corrosion Shield is not recommended, as 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.







# HD Corrosion Shield

## Technical Data Sheet

Date of Preparation: December 23, 2025

### 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

12 oz / 340 g aerosol

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.

S2S is a  VALKYRIE owned and distributed product

[www.valkyrie.com](http://www.valkyrie.com) - [corrosioncontrol@valkyrie.com](mailto:corrosioncontrol@valkyrie.com)



Valkyrie Enterprises



@Valkyrie2007