



# RUST SHIELD™

## TECHNICAL DATA SHEET



Check local VOC regulations to ensure compliance of all products in your area.

### DESCRIPTION

**Rust Shield** is a 2.8 VOC, direct to metal coating to isolate and control oxidation, rust, and corrosion on metal substrates.

### FEATURES

- Paint direct to rust or bare sanded steel
- Fast application
- Compliant everywhere
- Enhancer available for gloss adjustment
- Can be topcoated for UV resistance
- Restore agricultural, industrial, and heavy equipment

### SUITABLE SUBSTRATES

- Ferrous metals
- Properly prepped, primed and painted surfaces

### TYPICAL PROPERTIES

| Part: | Product Name:               | Color:                      | Container: |
|-------|-----------------------------|-----------------------------|------------|
| 28061 | Rust Shield                 | Gloss Black                 | Gallon     |
| 28064 | Rust Shield                 | Gloss Black                 | Quart      |
| 28081 | Rust Shield                 | Safety Orange               | Gallon     |
| 28091 | Rust Shield                 | Flat Black                  | Gallon     |
| 28101 | Rust Shield                 | Black                       | Gallon     |
| 28104 | Rust Shield                 | Black                       | Quart      |
| 28111 | Rust Shield                 | White                       | Gallon     |
| 28131 | Rust Shield                 | International Harvester Red | Gallon     |
| 28141 | Rust Shield                 | CAT Yellow                  | Gallon     |
| 28151 | Rust Shield                 | F.M.F. Gray                 | Gallon     |
| 28161 | Rust Shield                 | John Deere Yellow           | Gallon     |
| 28181 | Rust Shield                 | John Deere Green            | Gallon     |
| 28191 | Rust Shield                 | Aluminum                    | Gallon     |
| 38008 | Hardener and Gloss Enhancer | N/A                         | Pint       |

1000 hour salt spray test – ASTM-B117

No evidence of blistering or peeling at the scribe

**Without 38008**

**With 38008**



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|                                               |                 |                 |
|-----------------------------------------------|-----------------|-----------------|
| <b>Flash Time @ 70°F (21°C) &amp; 50% RH:</b> | 3-5 minutes     | 5-10 minutes    |
| <b>Dust Free Time:</b>                        | 5-10 minutes    | 10-15 minutes   |
| <b>Tack Free Time:</b>                        | 30 minutes      | 1 hour          |
| <b>Tape Time:</b>                             | 3 days          | 12 hours        |
| <b>Recoat Time:</b>                           | 48 hours        | 6 hours         |
| <b>Cure Time To Put Into Service:</b>         | 24-48 hours     | 24-48 hours     |
| <b>Total Cure Time:</b>                       | 7 days          | 7 days          |
| <b>Recommended DFT:</b>                       | 3 mils          | 3 mils          |
| <b>Coverage per gallon:</b>                   | 250 square feet | 250 square feet |
| <b>Regulatory VOC:</b>                        | 335 g/L         | 324 g/L         |
| <b>Actual VOC:</b>                            | 265 g/L         | 247 g/L         |
| <b>Pot Life:</b>                              | N/A             | 4-6 hours       |

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Use VOC calculator to determine VOC of mixtures.

## HANDLING AND APPLICATION

### PREPARATION:

Degrease surface with **SEM Solve** or **XXX Universal Surface Cleaner**. Remove all loose paint and scale with a wire brush. Sand painted areas with 220 grit sandpaper. Wipe or blow off surface. Clean again with **SEM Solve** or **XXX Universal Surface Cleaner**.

### MIXING:

Shake or stir thoroughly. **Rust Shield™** is ready to use. However, if thinning is desired, use a high quality urethane reducer up to 10% or use xylene. Check local regulations to see if reducing with xylene or reducer falls within allowable VOC limits.

### Note:

For optimal gloss and durability add 1 part **Rust Shield Hardener and Gloss Enhancer** to 8 parts of **Rust Shield**.

### APPLICATION:

Do not use below 50°F (10°C) or above 90°F (32°C). Excessive heat will increase gloss. Do not place in direct sunlight or expose to excessive heat until dry.

**Rust Shield** may be applied to bare metal or sandblasted steel. **Rust Shield** should be used on ferrous metal only.

### Note:

**Rust Shield** is a top coat and should not be used as a tinted primer. **Rust Shield** will fade with extended UV exposure.

### SPRAY GUN

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|                      |                                   |
|----------------------|-----------------------------------|
| <b>Air pressure:</b> | 35-45 psi with non-HVLP equipment |
|                      | 8-10 psi at the cap with HVLP     |
| <b>Fluid tip:</b>    | 1.6 – 1.8                         |
| <b>Coats:</b>        | 2 – 3 medium wet                  |

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### BRUSH OR ROLLER

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Apply 3 medium wet coats. Maximum rust protection is achieved from thicker applications.

### CLEANUP:

Use **XXX Universal Gun Cleaner** or appropriate cleaning materials compliant with VOC regulations in your area.

### STORAGE:

**Rust Shield** products should be stored in a cool, dry place with adequate ventilation away from heat, sparks and flames. The shelf life for **Rust Shield** is 5 years when stored under normal conditions. The shelf life for **Rust Shield Hardener and Gloss Enhancer** is 3 years.

### RELATED PRODUCTS:

| <b>Part:</b> | <b>Product Name:</b>          | <b>Size:</b>   |
|--------------|-------------------------------|----------------|
| 38008        | Hardener and Gloss Enhancer   | Pint           |
| 38371        | SEM Solve                     | Gallon         |
| 38373        | SEM Solve                     | 20 oz. Aerosol |
| 38374        | SEM Solve                     | Quart          |
| 77763        | XXX Universal Gun Cleaner     | 20 oz. Aerosol |
| 77771        | XXX Universal Surface Cleaner | Gallon         |
| 77774        | XXX Universal Surface Cleaner | Quart          |

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