

DESCRIPTION

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

FEATURES

- Paint bare and rusty metal
- Restore road equipment, tractors and snow plows
- Outstanding coverage and adhesion
- Tough, long lasting finish
- Activator available for extra durability
- Compliant everywhere
- Available in gallons and quarts

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
28094	Rust-Shield	Flat Black	Quart
28101	Rust-Shield	Black	Gallon
28104	Rust-Shield	Black	Quart
28111	Rust-Shield	White	Gallon
28114	Rust-Shield	White	Quart
28121	Rust-Shield	Dark Blue	Gallon
28131	Rust-Shield	International Harvester Red	Gallon
28134	Rust-Shield	International Harvester Red	Quart
28141	Rust-Shield	CAT Yellow	Gallon
28151	Rust-Shield	F.M.F. Gray	Gallon
28154	Rust-Shield	F.M.F. Gray	Quart
28161	Rust-Shield	John Deere Yellow	Gallon



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

28164	Rust-Shield	John Deere Yellow	Quart
28181	Rust-Shield	John Deere Green	Gallon
28191	Rust-Shield	Aluminum	Gallon
28194	Rust-Shield	Aluminum	Quart
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
Flash Time @ 70°F (21°C) & 50% RH:	3-5 minutes	5-10 minutes
Dust Free Time:	5-10 minutes	10-15 minutes
Tack Free Time:	30 minutes	1 hour
Tape Time:	3 days	12 hours
Recoat Time:	48 hours	6 hours
Cure Time To Put Into Service:	24-48 hours	24-48 hours
Total Cure Time:	7 days	7 days
Recommended DFT:	3 mils	3 mils
Coverage per gallon:	250 square feet	250 square feet
Regulatory VOC:	335 g/L	324 g/L
Actual VOC:	265 g/L	247 g/L
Pot Life:	N/A	4-6 hours

Please refer to www.semproducts.com for physical properties and VOC information. Use VOC calculator to determine VOC of mixtures.

HANDLING AND APPLICATION

PREPARATION:

Degrease surface with **SEM Solve** or **Zero VOC 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 **Zero VOC Surface Cleaner**.

MIXING:

Shake or stir thoroughly. **Rust-Shield** is ready to use. However, if thinning is desired, use **SEM SR Reducer**, or **SRX Exempt Reducer** up to 10% or use xylene. Check local regulations to see if reducing with xylene or reducer falls within allowable VOC limits. If thinning **Rust-Shield** in California, Canada or other VOC regulated areas, **SRX Exempt Reducer** must be used.

Note:

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



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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

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

BRUSH OR ROLLER

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

CLEANUP:

Use **XXX 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:

Part:	Product Name:	Size:
38371	SEM Solve	Gallon
38373	SEM Solve	Aerosol
38374	SEM Solve	Quart
38375	SEM Solve	5 Gallon
40401	Zero VOC Surface Cleaner	Gallon
40404	Zero VOC Surface Cleaner	Quart
SR104	Fast Reducer	Quart
SR204	Medium Reducer	Quart



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SR304	Slow Reducer	Quart
SRX14	Fast Exempt Reducer	Quart
SRX24	Medium Exempt Reducer	Quart
SRX34	Slow Exempt Reducer	Quart
38008	Hardener and Gloss Enhancer	Pint
77743	XXX Gun Cleaner	Aerosol

Technical Consultation Service

Our Technical Staff is ready to assist you with any questions. You are invited to take advantage of our extensive experience, laboratory services and trained field service representatives. Call (800) 831-1122 for answers to your questions. Hours of operation are Monday through Thursday 8:00 am until 5:00 pm EST and on Friday 8:00 am until 4:30 pm EST.

Disclaimer:

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Users should review the Material Safety Data Sheet (MSDS) and product label for the material to determine possible health hazards, appropriate engineering controls and precautions to be observed in using the material. Copies of the MSDS and product label are available upon request.