SEM® **RUST TRAP™**
TECHNICAL DATA SHEET

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

DESCRIPTION

Rust Trap is a moisture cross-linked urethane for coating ferrous metals. **Rust Trap** also adheres to aluminum, fiberglass and properly prepped paint in good condition.

FEATURES

- Paint direct to rust or bare sanded steel
- Seals current rust and prevents new rust from forming
- Dries to a glossy, non-porous, rock hard surface
- Excellent durability and chemical resistance
- Will not chip, crack or peel
- Fast coverage
- Topcoat for UV resistance
- Apply by brush or spray gun

SUITABLE SUBSTRATES

- Steel
- Rusted Steel
- Properly prepared paint in good condition
- Aluminum

TYPICAL PROPERTIES

Part:	Product Name:	Color:	Container:
45501	Rust Trap	Black	Gallon
45504	Rust Trap	Black	Quart
45508	Rust Trap	Black	Pint
45514	Rust Trap	Silver	Quart
45518	Rust Trap	Silver	Pint
45594	Rust Trap Flattener	N/A	Quart
45598	Rust Trap Flattener	N/A	Pint

	45501, 45504, 45508	45514, 45518	45594, 45598
Regulatory VOC:	322 g/L	319 g/L	0 g/L
Actual VOC:	322 g/L	319 g/L	0 g/L

Coverage: approximately 500 sq.ft. per gallon at 2 mils unreduced, not flattened.

HANDLING AND APPLICATION

IMPORTANT:

Always wear the proper personal protective equipment including latex or nitrile gloves, safety glasses or a face shield and a NIOSH approved paint respirator. Respirator required when spraying **Rust Trap**™. If **Rust Trap** gets on skin, wipe off immediately. Product will cure on skin if cleaned with soap and water.

SURFACE PREPARATION:

Surfaces must be clean, dry and free of contaminants.

1. Clean thoroughly with **SEM Solve** to remove grease and oil. Wipe dry in one direction to avoid smearing contaminants.
2. Remove any loose rust scale by sanding, grinding or using a wire brush. Removing additional rust will result in a better final appearance. Sandblasting is acceptable and pitted rust does not need to be removed. Abrade other surfaces with 180 grit sandpaper.
3. Blow off and re-clean with **SEM Solve**. Repeat until surface is free of contamination.

OPTIONAL:

To convert any rust prior to **Rust Trap** application, use **Rust-Mort**™ according to directions.

MIXING:

Rust Trap may be reduced for spray application. Recommended amount is 10 – 20% as follows:
• 2.8 VOC regulated single stage – Exempt Solvent
• 3.5 VOC regulated single stage – Urethane Reducer (up to 15%)
• 5.0 VOC regulated single stage – Urethane Reducer

To achieve lower gloss, mix with **Rust Trap Flattener** and stir thoroughly. Further thinning with reducer should not exceed 10% of the mixed flattened color.

Semi-Gloss	Satin	Matte
4 parts Color : 1 part Flattener	2 parts Color : 1 part Flattener	1 part Color : 1 part Flattener

APPLICATION:

SPRAY:

For best results, apply when relative humidity is less than 80% and temperature is between 65°F and 85°F.

NOTE:

Due to the drying/curing process of **Rust Trap**, it is recommended that application occur in a clean environment with light air flow.

1. Stir or gently shake **Rust Trap**.
2. Pour amount to be used into mixing cup or another container. Do not return unused material back into can. Wipe pour spout and inside of cap prior to recapping.

OPTIONAL:
Reduce 10 – 20% with high quality, fast or medium urethane reducer.

3. Apply in 2 medium coats, allowing 5 – 15 minutes flash time between coats. Apply second coat while first coat is still wet. First coat should not achieve full coverage and second coat should be applied in the same manner.

4. Allow final coat to cure for 8 – 24 hours before returning part to service.

AEROSOL:

Rust Trap may be filled into **Custom Fill**™ **Aerosol Blanks**. Once filled, use within 7 days for best results. Use Spray instructions for application.

BRUSH:

1. Stir or gently shake **Rust Trap**™. Do not reduce.

2. Pour amount to be used into mixing cup or another container. Do not return unused material back into can. Wipe pour spout and inside of cap prior to recapping.

3. Apply in 2 light-medium coats, allowing 20 – 60 minutes flash time between coats. Apply second coat after first coat has become slick to a light finger drag.

4. Allow final coat to cure for 8 – 24 hours before returning part to service.

NOTE:

Brushing silver and lower gloss black may be difficult to achieve a desired appearance. Brush a small test panel prior to painting large areas.

TOPCOATING:

Rust Trap is UV sensitive and will lose gloss with repeated or extended exposure to sunlight. If topcoating is desired, allow **Rust Trap** to cure overnight, and sand surface with appropriate grit sandpaper. Blow off dust, clean with **SEM Solve** and apply top coat.

Acceptable top coats:

Refinish Paint	Sand with 400 grit
Primer - Urethane or DTM	Sand with 180 grit
World Class™ **DTM Primer**	
World Class HS Urethane Primer	
Metalock™ **DTM High Build Primer**	
Truckbed Liner	Sand with 180 grit
Truckbed Liner	
Rock-It Liner™	
Pro-Tex™ **Truckbed Liner**	

Polyester Glaze	Sand with 180 grit
Metal Bite™ Finishing Glaze	
Bumper Bite™ Flexible Glaze	

CLEAN-UP:

Clean equipment immediately after application with **XXX Gun Cleaner** or solvent compliant in your area. Do not allow **Rust Trap** to dry on application equipment.

STORAGE:

Rust Trap should be stored in a cool, dry place with adequate ventilation away from heat, sparks and flames. The shelf life for **Rust Trap** is 1 year when stored under normal conditions.

RELATED PRODUCTS:

Part:	Product Name:	Size:
38371	SEM Solve	Gallon
38373	SEM Solve	20 oz. Aerosol
38374	SEM Solve	Quart
38375	SEM Solve	5 Gallon
39592	Metal Bite™Finishing Glaze	24 oz. Tube
39630	Truckbed Liner - Black	Gallon Kit
39650	Truckbed Liner - Tintable	Gallon Kit
40482	Bumper Bite™ Flexible Glaze	16 oz. Tube
40640	Pro-Tex™ Truckbed Liner - Black	Gallon Kit
40645	Pro-Tex Truckbed Liner - Black	5 Gallon
40660	Pro-Tex Truckbed Liner - Tintable	Gallon Kit
40665	Pro-Tex Truckbed Liner - Tintable	5 Gallon
40671	Pro-Tex Catalyst	Gallon
40674	Pro-Tex Catalyst	Quart
42250	Rock-It Liner™ - Black	4 Quart Kit
42260	Rock-It Liner - Tintable	4 Quart Kit
50121	World Class™ DTM Primer	Gallon
50124	World Class DTM Primer	Quart
50134	World Class DTM Primer Activator	Quart
50136	World Class DTM Primer Activator	Half Pint
50151	World Class HS Urethane Primer	Gallon

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50154	World Class HS Urethane Primer	Quart
50444	World Class 4.2 VOC Air Dry Activator	Quart
50446	World Class 4.2 VOC Air Dry Activator	Half Pint
50454	World Class 4.2 VOC Fast Activator	Quart
50456	World Class 4.2 VOC Fast Activator	Half Pint
50464	World Class 4.2 VOC Medium Activator	Quart
50466	World Class 4.2 VOC Medium Activator	Half Pint
50474	World Class 4.2 VOC Slow Activator	Quart
50476	World Class 4.2 VOC Slow Activator	Half Pint
61993	Custom Fill™ Aerosol Blank	16 oz. Aerosol
69501	Rust-Mort™	Gallon
69504	Rust-Mort	Quart
69508	Rust-Mort	Pint
77743	XXX Gun Cleaner	20 oz. Aerosol
ML010	Metalock™ DTM High Build Primer	Gallon
ML014	Metalock DTM High Build Primer	Quart
MLH16	Metalock DTM High Build Primer	Half Pint

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:

The information supplied in this document is for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed. All users of the materials are responsible for assuring that it is suitable for their needs, environment and use. All data subject to change as SEM deems appropriate.

Users should review the Safety Data Sheet (SDS) 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 SDS and product label are available upon request.