



CORROSION SHIELD®

Vinyl Etch Primer

Transparent Olive Green E2G973

PRODUCT DESCRIPTION:

CORROSION SHIELD E2G973 is a two-part, self-etching primer that provides excellent corrosion resistance and promotes adhesion to steel, aluminum, and many zinc coated metals. It is ideally suited for coating OEM E-Coat primer after sanding for the collision repair shop and bare metal parts for use by truck and body builders and body shops where a premium performance etching primer is required.

TECHNICAL DATA:

• Color	Transparent Olive Green	• Recommended dry film thickness	0.4-0.6 mils
• Weight solids as packaged	21.7%	• Viscosity (sprayable)	
• Volume solids as packaged	13.4%	#4 Ford Cup	12-14 seconds
• Volume solids ready to spray	6.0%	#2 Zahn Cup	14-16 seconds
• VOC content as applied	6.20	• Salt spray resistance	Excellent (500 hours)
• Coverage/gallon (sprayable) @ 0.4 mil dry	245 sq.ft.	• Humidity resistance	Excellent (500 hours)
• Mixing ratio by volume	2:3	• Flexibility (1/8" Conical Mandrel)	Excellent
• Induction time	None	• Flash point E2G973	45°F P-M
• Pot life	8 hours	R7K242	45°F P-M

SURFACE PREPARATION:

Bare Substrates: Steel, Aluminum, and Galvanized Steel*

* Note: With the inconsistencies of galvanized steel, contact your local SHERWIN-WILLIAMS Representative for system recommendations and substrate testing.

1. Solvent clean with SC155 Low VOC Surface Cleaner, followed by R7K158 Ultra® - Clean Fast Surface Cleaner*, and wipe dry with a clean, dry cloth.

*Check local regulations regarding the use of solvent cleaners.

2. If corrosion is evident remove with DUAL-ETCH® W4K263 (aluminum) or MET-L-ETCH™ W4K288 (steel or zinc coated steel).

Note: For maximum corrosion protection, MET-L-MATE® W4K289 may be used as a pretreatment protection prior to spraying E2G973. Refer to MET-L-MATE® W4K289 Data Sheet for instructions.

Prepainted Substrates: (Do not apply to lacquer primers or topcoats as lifting and/or cracking will occur on recoat.)

1. Wash surfaces thoroughly with mild detergent and water. Rinse well and wipe dry with clean cloth.
2. Solvent clean with SC155 Low VOC Surface Cleaner, followed by R7K158 Ultra® - Clean Fast Surface Cleaner*, and wipe dry with a clean, dry cloth.
3. For OEM parts, sand with 320-400 treated sandpaper. For other applications, grind off paint and remove all rust. Fill as needed using SHERWIN-WILLIAMS body filler. Allow body filler to tack up and shape as needed. Note: Body filler must be cured before applying CORROSION SHIELD.
4. Sand repair area and featheredge using 80, 180, 280, and finish with 320 grit treated sandpaper on a random orbital sander.
5. If metal surface is badly pitted or rusted, the rust must be removed. Remove by grinding or sanding and treat any remaining rust with MET-L-ETCH™ Steel Cleaner W4K288 per label directions.

Note: Minimize application onto painted substrates. Apply to bare metal areas and bare metal sand throughs by blending out coats of E2G973 beyond featheredge.

MIXING:

1. Shake then stir CORROSION SHIELD E2G973 thoroughly before using.
2. Mix 2 parts CORROSION SHIELD E2G973 with 3 parts Reducer Catalyst R7K242. Mix in plastic containers only. Do not use metal containers. Usable pot life is **8 hours**.
3. In hot and/or humid conditions, CORROSION SHIELD E2G973 may be retarded up to 10% by volume with Universal Urethane Retarder R7K6252.

APPLICATION:

Note: Use a teflon coated or plastic gun cup.

1. Adjust air pressure at the gun to 40-45 psi for siphon or gravity feed application, 5-6 psi at the air cap for HVLP.
2. Apply 1-2 medium wet coats allowing 2-3 minutes flash time between coats or apply one double coat.
3. A dry film thickness of 0.4-0.6 mils is required for corrosion protection.
4. Clean application equipment immediately with R7-K105 or R7-K106.

Note: Airless equipment and electrostatic guns are not recommended due to possible high film builds.

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RECOATING:

1. Apply one double coat of CORROSION SHIELD E2G973 (0.4-0.6 mils dry film thickness). Allow to flash to hand slick, but not more than 4 hours at 75°F, 50% relative humidity (cooler temperatures may extend hand slick time). **Note: Minimize application onto painted substrates. Apply to bare metal areas and bare metal sand throughs by blending out coats of E2-G973 beyond featheredge.**
2. If CORROSION SHIELD E2G973 is allowed to dry for over 4 hours, re-apply 1 coat of CORROSION SHIELD E2G973.
3. Recoat with a Sherwin-Williams primer-surfacer, primer-sealer, or sealer compatible with the chosen Sherwin-Williams topcoat to be applied. **Do not recoat CORROSION SHIELD E2G973 with G.B.P.® LCF Etching Filler PE990, zinc chromate primer, or two-component polyester-based primer-surfacers. Do not use S61 (E6C61) directly over CORROSION SHIELD® E2G973.**
4. See "Product at a Glance" for suitable recoat products.

Note: Sanding of CORROSION SHIELD E2G973 is not recommended.

GUN AND EQUIPMENT RECOMMENDATIONS:

Spray Gun Type	Manufacturer	Spray Gun Model	Nozzle	Air Cap	Gun Pressure
Siphon Feed	DeVilbiss	JGA502	1.8 mm/ .070/EX	80	40-45 PSI
Siphon Feed	Sharpe	975	1.8 mm/ .070	#10 Red	40-45 PSI
Gravity Feed	SATA	Jet 90	1.6 mm	*	40-45 PSI

Spray Gun Type	Manufacturer	Spray Gun Model	Nozzle	Cap Pressure
HVLP	DeVilbiss	GTI	1.4-1.6 mm	7-10 PSI
HVLP	SATA	MC-B	1.6 mm	7-10 PSI
HVLP	Sharpe	Titanium T1	1.4-1.5 mm	7-10 PSI

*Use one supplied

NOTES:

1. Do not place activated material back into unactivated primer.
2. Store activated material in an acid-resistant container (preferably plastic).
3. Keep container of activated material tightly closed when not in use.

PRODUCT AT-A-GLANCE

PRODUCT

CORROSION SHIELD®

E2G973

Transparent Olive Green

USE

- Provides superior corrosion resistance and prevents creepage of corrosion beneath primer from minor surface gouges.
- Provides excellent adhesion to most zinc coated metals and prepares the substrate for priming.
- Ideal for new OEM primed and sanded parts and any bare metal areas, OEM, and Fleet usage.
- Dries to recoat in as little as 30 minutes.

SUITABLE SUBSTRATES

- Steel
- Aluminum
- Cured Body Filler
- Galvanized steel*
- OEM Enamels

**Note: With the inconsistencies of galvanized steel, contact your local SHERWIN-WILLIAMS Representative for system recommendations and substrate testing.*

Do not apply to lacquer primers or topcoats as lifting and/or cracking will occur on recoat.

SURFACE PREPARATION

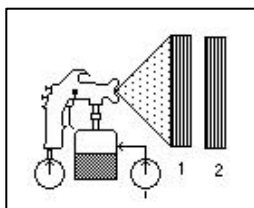
- **Remove corrosion** on aluminum with DUAL-ETCH® W4K263 and on steel with MET-L-ETCH™ W4K288.
- **Solvent clean** with SC155 Low VOC Surface Cleaner, followed by R7K158 Ultra® - Clean Fast Surface Cleaner*, and wipe dry with a clean, dry cloth.

MIXING

- Shake then stir CORROSION SHIELD® E2G973 thoroughly before use.



APPLICATION



40-45 psi Pot life: 8 hours

Only apply enough to achieve a dry film thickness of 0.4-0.6 mils. Generally this will be achieved by one double coat.
(Note: The coating will appear transparent.)

RECOAT

ULTRA-FILL II® Acrylic Primer-Surfacer
COLOR-PRIME™ Tintable Primer
ULTRA-FILL II® Urethane Sealer
PRIME-SHIELD™ 4.6 Epoxy Primer
AQUA II™® Primer or Sealer
ULTRA-FILL® Acrylic Primer-Surfacer
ULTRA-FILL® HS/NP Primers

SHER-LOK™, SHER-JET™ Primers
AQUA-SEAL™ 1K Waterborne Sealer
SuperCOMBO® Lacquer Primer-Surfacer
JET SEAL® Primer-Sealer
AQUA-FILL™ Surfacer
PRIME-SHIELD™ HS Urethane Primer-Sealer
P30 Series SpecraPrime™

NOTES

- Do not use MET-L-MATE® Phosphate Conversion Coating W4K289 to prepare bare metal substrates before application of CORROSION SHIELD™ E2G973 or similar acid conversion coatings as delamination will occur.
- Sanding of CORROSION SHIELD™ E2G973 is not recommended.
- Recommended dry film thickness is 0.4-0.6 mils.
- Recoat CORROSION SHIELD™ E2G973 within 4 hours of application or re-apply 1 coat of CORROSION SHIELD™ E2G973.

PERSONAL PROTECTION

- Read all label directions before use.
- Refer to MSDS for specific information.
- Wear a NIOSH approved air purifying respirator when mixing and applying.
- Wear a NIOSH approved dust particulate mask when sanding.
- Wear safety glasses, coveralls, and latex gloves when using product.

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