



SHERWIN-WILLIAMS®
Automotive Finishes

ELEMENT SHIELD®
OE/FLEET Recoatable Primer
E2W840 White
E2A841 Gray

PRODUCT OVERVIEW

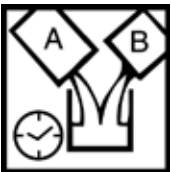
ELEMENT SHIELD® E2W840/E2A841 Recoatable Primer is designed for use in manufacturing and refinishing markets for prolonged recoat applications. ELEMENT SHIELD® Recoatable Primer is UV stable for exterior storage of primed units for extended periods of time. Applied as a high solids product, it offers excellent corrosion resistance, low VOC and **non-sanding recoatability** for weathered primed units. The unique recoatable properties of ELEMENT SHIELD® Recoatable Primer make it an ideal primer for multiple OE and Refinish markets including OE truck, bus, ground equipment, trailers, utility bodies, refuse, and concrete trucks.






SUITABLE SUBSTRATES

- Cold rolled steel
- Hot rolled steel
- Galvaneal
- Fiberglass

NOTE: Not for use for immersion services. Not for use on surfaces with extended surface temperatures of 250°F or more.



MIXING

	+		+	
3 Parts E2W840 E2A841		1 Part R7K7209 / R7K7210 / ES20 Reducer		1 Part V6V837 or V6V838 Hardener



APPLICATION

For Pressure/Siphon feed, apply 2 medium coats at a gun distance of 8-10 inches. Spray to hiding. For HVLP, apply 1 full wet coat with 50% overlap, then apply a second coat in a cross-coat method. Recommended dry film thickness is 2.0 – 2.5 mils.

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.



DRYING SCHEDULE

Topcoatable	15 minutes
Hand Slick	20 minutes
Tack Free	50 minutes
Tape Free	65 minutes
Dry to Sand	65 minutes
Dust Free	2 hours



PERSONAL PROTECTION

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



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SURFACE PREPARATION

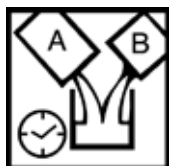
- **Wash** surfaces with a mild detergent in hot water. Rinse well and wipe dry with a clean cloth.
- **Solvent clean** with the appropriate Sherwin-Williams® solvent cleaner and wipe dry with a clean cloth.
- **Scuff sand** with 180- to 320- grit sandpaper.
- **Reclean** with appropriate Sherwin Williams® solvent cleaner to remove sanding residue, and wipe dry with a clean cloth.



SUITABLE SUBSTRATES

- Cold rolled steel
- Hot rolled steel
- Galvaneal
- Fiberglass

NOTE: Not for use for immersion services. Not for use on surfaces with extended surface temperatures of 250°F or more.



MIXING

- Mix thoroughly before applying.
- Mix 3 parts E2W840/E2A841 with 1 part R7K7209 Reducer and 1 part V6V837 or V6V838 Hardener.
- Stir thoroughly and strain before priming.
- Pot life at 70-80°F is 2 hours.



3 Parts	1 Part	1 Part
E2W840	R7K7209/	V6V837
E2A841	R7K7210 /	or
	ES20	V6V838
	Reducer	Hardener

NOTES:

- For increased temperatures, Reducer ES20 or R7K7210 can be used for improved overspray acceptance and melt-in.

REDUCER	TEMPERATURE RANGE
R7K7209	50-75°F
R7K7210 or ES20	70-85°F



APPLICATION

Overall

1. HVLP: Adjust air pressure at cap to 8-10 psi.
2. Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
3. Conventional: Adjust air pressure at the gun to 50-55 psi for pressure feed applications with a fluid delivery of 8-12 ounces per minute.
4. For Pressure/Siphon Feed: apply 2 medium coats at a gun distance of 8-10 inches. Spray to hiding. For HVLP, apply 1 full wet coat with 50% overlap, then apply a second coat in a cross-coat method. Recommended dry film thickness is 2.0-2.5 mils.



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EQUIPMENT

Gun Type

Conventional Siphon Feed
Conventional Gravity Feed
Conventional Pressure Feed
HVLP Gravity Feed
HVLP Pressure Feed

Nozzle

1.3-1.5 mm
1.3-1.5 mm
0.8-1.1 mm at 8-12 oz/min
1.3-1.5 mm
0.8-1.1 mm at 8-12 oz/min

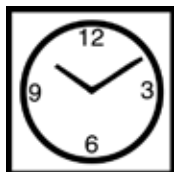
Air Pressure

50-55 psi
50-55 psi
50-55 psi
10 psi at cap
10 psi at cap

Electrostatic:

Meg-Ohm Rating: with R7K7209 = 0.85 Meg-Ohms
Fluid Delivery 6-8 oz/min.

with R7K7210 = 0.09 Meg-Ohms



DRYING SCHEDULE

Air dry at 75°. Dry times will be extended by thicker films, low temperature, or high humidity.

Topcoatable	15 minutes
Hand Slick	20 minutes
Tack Free	50 minutes
Tape Free	65 minutes
Dry to Sand	65 minutes
Dust Free	2 hours

Bake: 30 minutes at 180°F unaccelerated.
Dry to sand – after 15 minutes cool down.
Dry to recoat – after 15 minutes cool down.

RECOATING

REPRIMING WEATHERED ELEMENT SHIELD® E2W840/E2A841 RECOATABLE PRIMER

*After 24 hours and up to nine months after, E2W840/E2A841 can be reprimed without sanding by following this recommended procedure.

1. Wash surfaces with a mild detergent in hot water by hand or with power washer. Rinse and dry thoroughly.
2. Solvent clean with appropriate Sherwin-Williams® solvent cleaner and wipe dry with a clean cloth.
3. **Up to 6 months:** Apply one of the following primers according to product recommendations:
E2W840 / E2A841
E2B931 / E2W932 / E2A933
E2A820 / E2R822 / E2W823
E2W817 / E2B818 / E2A819
4. **Up to 9 months:** Apply one of the following primers according to product recommendations:
E2B931 / E2W932 / E2A933
E2W817 / E2B818 / E2A819
5. Topcoat with suitable Sherwin-Williams® topcoat system.

SUITABLE TOPCOATS

Topcoat after 15 minutes and up to 72 hours without sanding. After 72 hours, sand before topcoating.

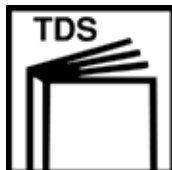
- Genesis® Basecoat/Clearcoat
- Genesis® 2.8/3.5 Low VOC Acrylic Urethane
- Genesis® M Low VOC Acrylic Urethane
- Genesis® 0.5 VOC Acrylic Urethane
- Dimension® Urethane Systems
- ULTRA 7000® Basecoat



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TECHNICAL DATA

Mixing Ratio by Volume	3:1:1	Physical Properties	
Max VOC @ 3:1:1	2.1 lbs/gal	Humidity - 100 hours	Pass
Ready to Spray Volume Solids	52.7 %	Impact Resistance (direct at 80 in-lbs.)	Pass
Coverage @ 1 mil dry	840-850 FT ² /gal	Flexibility (1/8" conical mandrel)	Pass
Pot Life	2 hours at 70-80°F	Salt Spray – 500 hours	Pass
Viscosity (sprayable) Gardner #2 Zahn Cup (ISO calibrated)	13-16 sec	Gloss Holdout (at 15 minute recoat)	Excellent
Recommended Dry Film Thickness	2.0-2.5 mils	Recoatability (up to 9 months)	Pass

E2W840 White	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	15.72	1883	12.89	1545
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	13.7	30.3	28.4	47.0
Solids	86.3	69.7	71.6	53.0
Water	0	0	0	0
Exempt Compounds	0	0	16.3	25.4
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	2.15	258	1.56	187
VOC Less Exempt	2.15	258	1.56	187
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0.79	0.094	0.62	0.074

E2A841 Gray	As Packaged		As Applied	
	Lb/Gal	G/L	Lb/Gal	G/L
Density	14.90	1785	12.40	1486
	% by Wt.	% by Vol.	% by Wt.	% by Vol.
Volatiles	15.3	32.1	30.2	48.1
Solids	84.7	67.9	69.8	51.9
Water	0	0	0	0
Exempt Compounds	0	0	17.0	25.4
	Lb/Gal	G/L	Lb/Gal	G/L
VOC Total	2.28	273	1.63	196
VOC Less Exempt	2.28	273	2.19	263
	Lb/Gal	KG/L	Lb/Gal	KG/L
HAPs	0.72	0.087	0.57	0.068

To learn more about Sherwin-Williams® Automotive Refinish Products, visit our Web site at www.sherwin-automotive.com
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