



ULTRA-FILL II® Acrylic Urethane Sealer Neutral Beige/COLOR-SEAL® S59 (E6H59)

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PRODUCT DESCRIPTION:

ULTRA-FILL II® S59 Acrylic Urethane Sealer/COLOR-SEAL® is a tintable sealer designed to provide excellent topcoat holdout for superior gloss and DOI. S59/COLOR-SEAL® fills 400 or finer grit sand scratches to prevent sand-scratch swelling and to ensure adhesion to OEM substrates. S59/COLOR-SEAL® is especially suited for repairs requiring maximum topcoat holdout and premium quality. S59/COLOR-SEAL® may also be used "wet-on-wet" in 15 minutes if used over cured, enamel substrates. S59/COLOR-SEAL® when mixed 4:2:2:1 meets U.S. National Rule Requirement of 4.6 lbs/gal (551.08 g/l) maximum ready-to-spray VOC and lower (volatile organic compounds).

TECHNICAL DATA:

• Color	Neutral Beige	• Volume Solids as applied:	31%
• Sprayable Viscosity #2 Zahn	20-21 sec	• Recommended dry film thickness	0.8-2.5 mils
• Maximum VOC as applied 4:2:2:1		• Humidity Resistance – 500 hours	Excellent
VOC total	3.4 lbs/gal 413 g/l	• Coverage (sq.ft./gal @1 mil)	236.48 sq.ft.
VOC less exempt	4.4 lbs/gal 532 g/l		

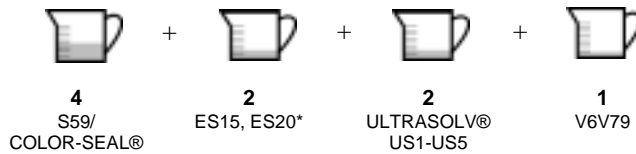
SURFACE PREPARATION:

(Refer to respective product labels or data pages for complete information.)

- Final sand repair area when sealing with P400 grit or finer sandpaper. When directly topcoating over primer, final sand repair area with P600 grit or finer sandpaper. Sanding can be done either wet or dry.
- Solvent clean with an appropriate Sherwin-Williams surface cleaner. Wipe dry with clean cloth.
- Treat sand throughs to bare metal with appropriate metal treatment system.

MIXING:

- Stir or shake ULTRA-FILL II® S59/COLOR-SEAL® thoroughly before mixing.
- Choose the ULTRASOLV® Reducer that best fits shop temperature.
- Mix by volume. Maximum VOC less exempt as applied 4.6 lbs/gal (551.08 g/l):



For 3.5 VOC Compliance, Mix 25 parts Sealer to 17 parts ES15 Transducer, to 3 parts ULTRASOLV®, then add 5 parts UH100 Hardener. OR, Mix 25 parts Sealer to 17 parts ES15 Transducer, to 3 parts ULTRASOLV® Reducer then combine 9 parts of complete mixture with 1 part UH100.

***NOTE:** ES20 is for temperatures above 85°F.

Pot Life: 5 hours at 70°F, 2 hours at 80°F, 1 hour at 90°F

- Flexible parts:** Mix by volume, 4 parts S59/COLOR-SEAL® with 4 parts ULTRASOLV® Reducer, stir, then add 1 part V6V79 hardener and 1 part V6V299 MULTI-FLEX® Flexible Additive, which equates to 10% of V6V299 in the Ready to Spray mixture.
Pot life: 5 hours at 70°F, 3 hours at 80°F, 2 hours at 90°F.
- For tinting, see COLOR-SEAL® brochure #AS1799 for mixing instructions.
- Stir thoroughly and strain before using.

APPLICATION:

- Adjust air pressure to: 40-45 psi for conventional siphon feed gun
30-35 psi for conventional gravity feed gun
8-10 psi air cap pressure for HVLP gun
- Wet-on-Wet Application:** Apply 1 full even wet coat to achieve 0.8 to 1.2 mils.
Barrier Coat Application: Apply 2-3 medium wet coats, allowing each coat to flash hand slick before applying the next coat. Apply to complete panels only. Allow to thoroughly dry, and scuff or sand before applying topcoat.
Direct to E-Coat: S59 can be applied direct to unsanded E-Coat for jamming parts only; the exterior must be prepared according to sanding recommendations.
- Clean spray gun with R7-K105 or R7-K106 immediately after use.
- Narrow spray gun fan pattern to help prevent dry overspray and dry edges in temperatures above 85°F or in higher flow spray booths.

Notes: • Do not use SUNFIRE® or GENESIS® topcoats over S59/COLOR-SEAL® when used as a "wet-on-wet" sealer.

RECOATING:

WHEN USING AS A "WET-ON-WET" SEALER:

1. Allow S59/COLOR-SEAL® to dry until handslick (usually about 5-30 minutes depending on temperatures and film thicknesses).
2. Recoat with any Sherwin-Williams Enamel or Urethane topcoat except SUNFIRE® and GENESIS®. Do not use over OEM or refinish lacquer topcoats. Do not recoat with lacquer topcoats.
3. Sealer should be topcoated within 1 hour to prevent a possible recoat lift. If allowed to dry for more than 1 hour, reapply the sealer following the wet-on-wet procedure and topcoat within 1 hour.
4. If S59/COLOR-SEAL® is allowed to dry 16 hours, scuff sand with a gray nylon scuffpad or wet sand with 600 grit or finer sandpaper and reapply S59/COLOR-SEAL® with the wet-on-wet application.

-or-

WHEN USING AS A BARRIER SEALER FOR MAXIMUM HOLDOUT

1. Recoat S59/COLOR-SEAL® with any Sherwin-Williams topcoat according to the following recoat schedule:

<u>Temperature (°F)</u>	<u>Dry to Recoat</u>
Below 60	DO NOT USE
60-70	6 hours
70-80	4 hours
80-90	3 hours
120 (Force Dry)	1.5 hours
140 (Force Dry)	30 minutes
160 (Force Dry)	20 minutes

Do not force dry above 160°F

Note: When force drying S59/COLORSEAL®, scuff sand after cool down for maximum adhesion.

2. If S59/COLOR-SEAL® is allowed to dry 16 hours, scuff sand with 600 grit or finer dry sandpaper and recoat with any Sherwin-Williams topcoat. Reapplying sealer is not necessary if 2.0 mils dry film thickness has been achieved.
3. Recoat S59/COLOR-SEAL® within 24 hours after dry sanding or 4 hours after wet sanding to ensure proper adhesion.

GUN RECOMMENDATIONS FOR OPTIMUM PERFORMANCE

SPRAY GUN TYPE	MANU-FACTURER	SPRAY GUN MODEL	NOZZLE	AIR CAP	PSI
HVLP Gravity Feed	SATA	NR2000	1.3 mm/1.4 mm	use one supplied	10 psi cap*
HVLP Gravity Feed	SATA	NR95	1.5 mm	use one supplied	10 psi cap*
HVLP Gravity Feed	DeVilbiss	GTI	1.4mm/1.6 mm	use one supplied	10 psi cap*
HVLP Gravity Feed	Sharpe	SGF98	1.3 mm/1.5 mm	use one supplied	10 psi cap*
Conv. Gravity Feed	SATA	RP	1.3 mm/1.4 mm	use one supplied	30-35 psi
Conv. Gravity Feed	SATA	Jet 90	1.4 mm/1.6 mm	use one supplied	30-35 psi
Conv. Gravity Feed	Sharpe	SGF	1.4 mm/1.6 mm	MD Blue	30-35 psi

*Must check with manufacturer supplied air cap test kit

PRODUCT AT-A-GLANCE

PRODUCT **ULTRA-FILL II® Acrylic Urethane Sealer Neutral Beige/COLOR-SEAL® S59**

USE

- A premium quality, lead/chromate free, two component acrylic urethane sealer.
- Seals porous surfaces for excellent color holdout, gloss, and DOI.
- Prevents featheredge lifting and minimizes sandscratch swelling.
- Can be directly topcoated with Sherwin-Williams Automotive enamel or urethane topcoat system.

SUITABLE SUBSTRATES

- OEM Enamels
- Aged refinishes
- CORROSION SHIELD™
- G.B.P.® Etching Filler
- ULTRA-FILL® HS/CP Primers
- COLOR-PRIME™ Tintable Primer
- ULTRA-FILL® Primer-Surfacer†
- ULTRA-FILL II® Primer-Surfacer

†When using S59/COLOR-SEAL® according to barrier sealer recommendations, do full panels only.

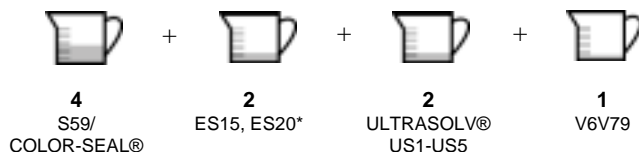
SURFACE PREPARATION

(Refer to respective product labels or data pages for complete information.)

1. Final sand repair area when sealing with P400 grit or finer sandpaper. When directly topcoating over primer, final sand repair area with P600 grit or finer sandpaper. Sanding can be done either wet or dry.
2. Solvent clean with an appropriate Sherwin-Williams surface cleaner. Wipe dry with clean cloth.
3. Treat sand throughs to bare metal with appropriate metal treatment system.

MIXING

1. Stir or shake ULTRA-FILL II® S59/COLOR-SEAL® thoroughly before mixing.
2. Choose the ULTRASOLV® Reducer that best fits shop temperature.
3. Mix by volume. Maximum VOC less exempt as applied 4.6 lbs/gal (551.08 g/l):



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APPLICATION

1. Adjust air pressure to: 40-45 psi for conventional siphon feed gun
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8-10 psi air cap pressure for HVLP gun
2. **Wet-on-Wet Application:** Apply 1 full even wet coat to achieve 0.8 to 1.2 mils.
Barrier Coat Application: Apply 2-3 medium wet coats, allowing each coat to flash hand slick before applying the next coat. Apply to complete panels only. Allow to thoroughly dry, and scuff or sand before applying topcoat.
Direct to E-Coat: S59 can be applied direct to unsanded E-Coat for jamming parts only; the exterior must be prepared according to sanding recommendations.
3. Clean spray gun with R7-K105 or R7-K106 immediately after use.
4. Narrow spray gun fan pattern to help prevent dry overspray and dry edges in temperatures above 85°F or in higher flow spray booths.
Notes: • Do not use SUNFIRE® or GENESIS® topcoats over S59/COLOR-SEAL® when used as a "wet-on-wet" sealer.

RECOAT

- ULTRA® Topcoats
 - ACRYLYD® Topcoats
 - SUNFIRE® Topcoats†
 - GENESIS® Topcoats†
- † Do Not use over S59/COLOR-SEAL® when using as a wet-on-wet sealer

NOTES

- Clean equipment immediately with Gun and Equipment Cleaner R7K105 or R7K106.
- If S59/COLOR-SEAL® is allowed to dry over 16 hours, scuff sand before recoating. (If used as wet-on-wet, recoat only with itself after overnight dry.)
- When using S59/COLOR-SEAL® as a barrier sealer, it must be sprayed to 2.0 mils after drying and be used on complete panels/overalls only.

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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