

DATA SHEET

DESCRIPTION:

The 30-Mil Epoxy System is a three (3) coat, high build epoxy coating system consisting of two (2) coats of ES-3150 Epoxy applied at a total of 26 mils and a finish coat of a clear or pigmented chemical resistant urethane (ES-5322) top coat, applied at 4-dry mils.

The system is available in clear and colors achievable by mixing the clear ES-3150 Epoxy or clear ES-5322 CRU with one of 16 "specialty" urethane/epoxy Colorants in the field.



RECOMMENDED USES:

The 30-Mil Epoxy Coating System is used on concrete service area floors in auto, truck and aircraft maintenance facilities that are subjected to light to moderate traffic and typical chemical spillages.

FEATURES:

- Squeegee Applied, Self-Leveling
- Easy Mixing Ratio
- 16 Standard Colors
- Can Be Installed Smooth or With Various Degrees of Non-Slip
- VOC Compliant
- Good Chemical Resistance-Resists Brake Fluid, Battery Acid and Skydrol 500B.
- Good Abrasion Resistance

PACKAGING:

The ES-3150 Epoxy Coating is available in 15-gal and 165-gal units for easy job-site mixing and application.

The ES-5322 Chemical Resistant Urethane is available in 15-gal semi-bulk units.

COVERAGE:

The ES-3150 Epoxy is applied at the rate of approximately 115 sq. ft. per gallon per coat, which is about 14 mils. The ES-5322 Chemical Resistant Urethane is applied at the rate of 300 sq. ft. per gal. As with all coatings, coverage is dependent on the smoothness and porosity of the surface and is determined mathematically.

SURFACE PREPARATION:

The substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by steel shot blasting. Cracks and joints should be repaired before the installation of the ES-3150 Epoxy Coating.

If the concrete surface is not prepared properly, product adhesion will fail and warranties will be voided.

FOR OPTIMUM RESULTS:

- For Interior Use Only Where Freeze/Thaw Occurs.
- New Concrete Must Cure For at Least 30 Days @ 70°F
- DO NOT Reduce The ES-3150 Epoxy Coating with Thinner
- DO NOT Use When Relative Humidity Exceeds 75% Indoors.
- DO NOT Apply to Structurally Unsound Surfaces.
- DO NOT Apply heavier than recommended wet film thickness.
- Allow Each Coat to Dry Tack-Free Before Recoating.
- Apply Subsequent Coats Within 24 Hours of Previous Coat.

Review ECONO SURF's Material Safety Data Sheets (MSDS) for this product prior to mixing and applying. In addition, thoroughly review the Application Guide and product labels.

MIXING:

Avoid mixing and application of this product if the floor temperature is below 55°F or above 85°F. Also, avoid application if the relative humidity is higher than 75%. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure.

General Properties:	Data
Shelf Life	Epoxy: 2 Years Urethane; 1-Year
Colors	Clear & Variety with Field Colorants
Induction	None
Coverage	ES-3150 is 114 sq. ft. per gal @ 14 wet mils ES-5322 is 300 sq. ft. per gal @ 5 wet mils
Mixing Ratio: (A to B)	ES-3150 is 1:2 by volume
Application Temp & Humidity	55°F to 85°F @ less than 75% R.H.
Packaging	15-Gal and 165-Gal Bulk Units
Application Methods	Flat or Notched Squeegee & High quality 3/8" nap roller
Cure Rate @ 75 °F	
Recoat	5-6 hrs.
Foot Traffic	10 hrs.
Heavy Traffic	24+ hrs.
Chemical Resistance	72+ hrs.

Test	Method	Typical Values
Bond Strength (psi)	ACI COM #503 (pp. 1139-1141)	400+ w/ concrete failure
% Solids by Volume	ASTM D-1644	100.0
Flash Point	Pensky-Martens CC	>200°F
UV Light Resistance	Q-U-V Accelerated Weather Tester	Good
Hardness-Shore D	ASTM D-2240	84+
VOC	EPA Method 24	0.27 lbs/gal
Gloss (60°)	BYK-Gardner Tri-Gloss	90+
Impact Resistance	ASTM D-2794	>160 in-lbs.
Indentation	MIL-D-3134F	None
Abrasion Resistance (mg) (CS-17 wheel, 1000 GM load, 1,000 cycles)	ASTM D-1044	65
Flammability	ASTM D-635	Self-Extinguishing
Dry Heat Resistance		140 °F Constant 200 °F Intermittent
Water Absorption (%)	ASTM C-413	0.17%

If Colorants are to be used with the ES-3150 Epoxy Coating, or the ES-5322 Urethane, the appropriate quantity of Colorant is first added to the Part-B Resin and mixed in uniformly before the Part-A Hardener is added. Consult an Econo Surf representative for information regarding the quantity of each colorant required.

The ES-3150 Epoxy is mixed at a ratio of 1 part by volume Part-A Hardener to 2-parts by volume of Part-B Resin. A typical batch consists of one gallon of Part-A Hardener to two gallons of Part-B Resin. DO NOT change the ratio of A to B.

The ES-5322 Chemical Resistant Urethane is mixed at a ratio of 1 part by volume Part-A Hardener to 2 parts by volume of the Part-B resin to 1 quart of Colorant.

Blend thoroughly for a minimum of 2 minutes with a "Jiffy" or "Spiral" mixing blade attached to a low-speed (400-600 RPM) electric drill. Take care not to induce air into the material when mixing. This will cause "bubbles" in the coating when applied.

APPLICATION:

1. Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720.
2. Notch squeegee apply 14-mils (114 sq. ft./gallon) 100% solids clear epoxy (ES-3150 Epoxy) and back roll to level using a 3/8" nap, 18" wide, mohair roller.
3. Notch squeegee apply 12-mils (133 sq. ft./gallon) of a clear or pigmented 100% solids epoxy (ES-3150) and back roll to level using a 3/8" nap, 18" wide, mohair roller.
4. Power sand/screen the entire area (if necessary) to remove surface defects such as grit, air bubbles, etc. and tack rag clean to remove fine dust using a floor sander with #80 grit sand paper.
5. Sweep and/or vacuum to remove residual epoxy dust and other contaminants.
6. Broadcast #24 or #36 aluminum oxide safe walk grit onto the cured epoxy basecoat at a rate designated by the customer's representative (typically one-lb. per 1,000 sq. ft.)
7. Roller apply one (1) finish coat of a clear or pigmented, V.O.C. compliant, chemical resistant aliphatic urethane (ES- 5322 CRU) using a 1/2" nap, 18" wide, mohair roller at approximately 5 mils (300 sq. ft./gallon). Avoid excess agitation of the liquids with the roller. This will lessen chances of bubbling of the final film.

POT LIFE:

At 75°F and 50% R.H., the ES-3150 Epoxy in both clear and pigmented systems have a useful working time or pot life of 15-20 minutes. The ES-5322 Chemical Resistant Urethane has a working time of approx. 3-hrs.

Using any product beyond this time will yield variable results and therefore any mixed product beyond the pot life should be discarded.

CLEAN UP:

Application equipment should be cleaned using soap and water or solvent where necessary. Roller covers should be discarded after use.

DISPOSAL:

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Any containers to be thrown out must be disposed in accordance with federal, state and local regulations.

CUSTOMER NOTE:

For information on application situations not covered above, contact the corporate office at 1-302-322-4920

ECONO SURF

Corporate Headquarters: 110 J&M Drive, P. O. Box 732, New Castle, DE 19720

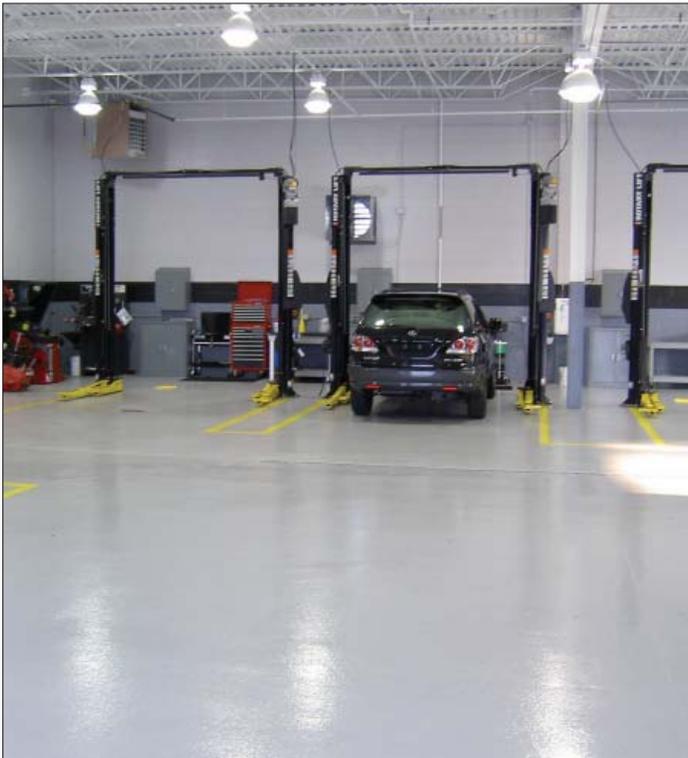
PHONE (302) 322-4920 • FAX (302) 322-4981

DATA SHEET

DESCRIPTION:

ES-2065 Broadcast System is a 65-mil multi-product system that includes a 100% solids semi-rigid epoxy receiver coat, a 100% solids top coat, a 4-mil aliphatic urethane finish coat and aggregate layered together to form a 65-mil broadcast flooring system. This system exhibits very good chemical, wear and chip resistance.

A total of 16 different standard colors can be achieved by mixing the clear epoxy coating in the ES-2065 Broadcast System and the clear chemical resistant urethane finish coat with urethane/epoxy Colorants in the field.



RECOMMENDED USES:

The ES-2065 Broadcast Coating System is designed for use on concrete auto, truck and aircraft service area floors that are subjected to moderate to heavy traffic and chemical spillage.

PACKAGING:

The liquid components of the 65-mil Solid Color Broadcast System are available in semi-bulk and bulk liquid units. The silica flour is available in 50-lb. bags, while the "special" broadcast aggregate is available in 100-lb. bags.

COVERAGE:

The "semi-rigid" 2200 Epoxy Receiver Coat (with the silica flour) is applied at the rate of 30-mils (53.3 sq. ft./gal) and the aggregate is broadcast at the rate of 0.67-lbs. per sq. ft. per application layer. The 3150 Epoxy Top Coat is applied at the rate of 80-90 sq. ft. per gallon depending on the final surface texture desired. The VOC-Chemical Resistant Urethane finish coat is applied at 300 sq. ft./gal.

FEATURES:

- 16 Standard UV Stable Colors
- Good Chemical Resistance-Resists Brake Fluid, Battery Acid, Skydrol 500B
- Good Abrasion Resistance
- VOC Compliant products
- Gloss Finish; Final floor requires less maintenance and upkeep.
- Will give your facility a bright, clean and professional appearance.
- Full Range of textures; provides a safe surface on which to work.
- Can Be Installed With an Integral Cove Base to Create a Monolithic Floor

SURFACE PREPARATION:

In general, the substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by steel shot blasting. Cracks and joints should be repaired before the installation of the 65-mil Broadcast System.

1. If the floor has an existing paint or coating to be removed, grind the entire area using a self-contained, dust controlled, 480 volt 30-amp, "Diamond Grinder" (Photo #1).
2. Using a 15", 480-volt "Shot Blast" unit (Photo #2), profile the bare concrete floor surface to affect an approximate 80-grit sand paper finish to achieve a sound mechanical bonding surface for the squeegee applied, 100% solids epoxy.
3. Power sand and/or hand grind (using vacuumized diamond grinders) all edges, perimeter areas, etc. that are inaccessible to the shot blast equipment. If necessary, clean out ALL expansion, isolation and control joints using a concrete saw.
4. Power sweep and/or vacuum the surface to remove all laitance, dust and excess shot.



Photo #1



Photo #2

5. If the concrete surface is not prepared properly, product adhesion will fail and warranties will be voided.

FOR OPTIMUM RESULTS:

- New Concrete Must Cure For at Least 30 Days @ 70°F and tested for moisture content.
- DO NOT Reduce the Epoxy components ... with ANY thinner.
- DO NOT Use when Humidity Exceeds 75% Indoors.
- DO NOT Apply to Structurally Unsound Surfaces.
- Allow Each Coat to Dry Tack-Free Before Recoating.
- Apply subsequent coats within 24 Hours of Previous Coat.
- Test Compatibility with Existing Coatings Prior to Application of This System

Review the Material Safety Data Sheets (MSDS) for this product prior to mixing and applying. In addition, thoroughly review the Application Guide and product labels.

General Properties:	Data	
Shelf Life	2 Years	
Application Temp & Humidity	55°F to 85°F @ less than 75% R.H.	
Induction	None	
Mixing Ratio: (A to B)	Receiver Coat & Top Coat: 1 to 2 ratio; CRU 1 to 2 ratio	
Colors	Variety with Urethane/Epoxy Colorants	
Working Time @ 75 °F	Receiver Coat: 25 minutes; Top Coat: 18-20 minutes.	
Application Methods	Receiver Coat: Notched Squeegee & High quality 3/8" nap roller; Top Coat: Flat Squeegee & High quality 3/8" nap roller.	
Cure Rate @ 75 °F		
Recoat	10 hrs.	
Foot Traffic	14 hrs.	
Heavy Traffic	24+ hrs.	
Chemical Resistance	72+ hrs.	
Test	Method	Typical Values
Bond Strength (psi)	ACI COM #503 (pp. 1139-1141)	400+ w/ concrete failure
% Solids by Volume	ASTM D-1644	100.0
Flash Point	Pensky-Martens CC	>200°F
UV Light Resistance	Q-U-V Accelerated Weather Tester	Good
Hardness-Shore D	ASTM D-2240	84+
VOC	EPA Method 24	0.12 lbs./gal
Gloss (60°)	BYK-Gardner Tri-Gloss	90+
Impact Resistance	ASTM D-2794	160 in-lbs.
Indentation	MIL-D-3134F	None
Abrasion Resistance (mg) (CS-17 wheel, 1000 GM load, 1,000 cycles)	ASTM D-1044	31*
Flammability	ASTM D-635	Self-Extinguishing
Dry Heat Resistance		140 °F Constant 200 °F Intermittent
Compression Strength (psi)	ASTM D-695	13,100
Tensile Strength (psi)	ASTM D-638	7,100
Flexural Strength (psi)	ASTM D-790	8,250
Water Absorption (%)	ASTM C-413	0.18%
Coefficient of Friction(COF)	James Friction Tester	0.50- .057**

Notes: *Abrasion Resistance results based on total epoxy/urethane system.

**Coefficient of Friction varies depending on the Top Coat used. See application Step-7

MIXING:

Avoid mixing and application of these products if the floor temperature is below 55°F or above 85°F. Also, avoid application if the relative humidity is higher than 75%. The temperature of the floor, materials and air in the area of the installation

all play a role in how the product will apply and cure.

If Colorants are to be used with the 65-Mil Broadcast Coating System, the appropriate quantity of Colorant is added to the Part-B Resin and mixed in uniformly before the Part-A Hardener is added.

Blend the Part-A and Part-B components thoroughly for a minimum of 2 minutes with a "Jiffy" or "Spiral" mixing blade attached to a low-speed (400-600 RPM) electric drill. Take care not to induce air into the material when mixing. This will cause "bubbles" in the coating when applied.

APPLICATION:

1. Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720 or Garamite 1958.
2. Notch squeegee apply a coat of 100% solids epoxy (Econo Surf 2200 Receiver Coat) filled with Sil-Co-Sil 125 at the rate of 30-mils or 53.3 sq. ft./gal and back roll to level using a 3/8" nap, 18" wide, roller sleeve.
3. Seed (broadcast) to excess (rejection) with a specially blended silica aggregate at the rate of 0.67 lbs. per sq. ft.
4. Sweep and /or vacuum to remove all excess silica aggregate.
5. Saw cut all moving joints as required and fill them with a flexible epoxy joint material.
6. Sweep and /or vacuum to remove dust, debris, contamination etc. resulting from the sanding/cutting process.
7. Notched or flat squeegee apply 20-mils (80 sq. ft./gal) of clear, 100% solids epoxy (Econo Surf 3150 Epoxy) and back roll to level using a 3/8" or 1/2" nap (depending on the desired finished texture), 18" roller sleeve.
8. Roller apply one (1) finish coat of a pigmented, V.O.C. compliant, chemical resistant aliphatic urethane (Econo Surf 5322 CRU) using a 1/2" nap, 18" wide, mohair roller at approximately 5-mils (300 sq. ft./gallon).

POT LIFE:

Based on 75°F and 50% R.H., the Receiver Coat has a pot life of 22-25 minutes while the Epoxy Top Coat has a pot life of 18-20 minutes. Using any product beyond this time will yield variable results and therefore any mixed product beyond the pot life should be discarded. Only the amount of urethane that can be applied within 30 minutes should be mixed at one time.

CLEAN UP:

Application equipment should be cleaned using soap and water or solvent where necessary. Roller covers should be discarded after use.

DISPOSAL:

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Any containers to be thrown out must be disposed in accordance with federal, state and local regulations.

CUSTOMER NOTE:

For information on application situations not covered above, contact the corporate office at 1-302-322-4290.

ECONO SURF

ES-2065 65-Mil Solid Color Broadcast System (Dealer) DS Rev.: 3 4/10

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PHONE (302) 322-4920 • FAX (302) 322-4981 • Email: info@econo-surf.com

DATA SHEET

DESCRIPTION:

ES-2425 125-mil Broadcast Decorative Quartz(Tweed) System is an 1/8" thick system (125 mils) consisting of two (2) applications of 100% solids, squeegee applied 'bulked up" epoxy with the color quartz aggregate blend, followed by a top coat application of a 100% solids epoxy system. An optional satin to high gloss aliphatic urethane finish coat is usually applied.

This system exhibits very good chemical, abrasion, chip and UV resistance. It is available in virtually hundreds of tweed color blends and can be installed in varying degrees of texture—from smooth to severe. It is also installed vertically to create a "bath tub" effect for clean rooms.



RECOMMENDED USES:

This system is used on concrete floors that are subjected to light to moderate traffic and chemical spillage. This system meets all of the USDA guidelines for use in federally inspected poultry and meat plants.

Automotive: service write-up, customer lounges, showrooms, offices, etc. that are NOT subject to direct continuous sunlight. Kitchens, lunchrooms, bathrooms, locker rooms, clean rooms, labs and anywhere seamless "grout joint free" easy to maintain semi permanent floors would be beneficial.

COVERAGE:

The two "Receiver Coats" of 3150-Epoxy, bulked up with Sil-Co-Sil 125, are applied at the rate of 30-mils or 53.3 sq. ft. per gallon. The color quartz aggregate is broadcast into each receiver coat at the rate of 0.67-lbs. per sq. ft.

The "Top Coat" of 3150 Epoxy is applied at the rate of 80-90 sq. ft. per gallon depending on the final surface texture desired. The 5322-Chemical Resistant Urethane finish coat is applied at 300 sq. ft. per gallon.

FEATURES:

- A system alternative to VCT and Ceramic
- Requires Minimum Maintenance and Has NO Grout Joints
- Very Good Chemical and Abrasion Resistance
- VOC Compliant—Solvent Free
- Satin to High Gloss Finish
- Full Range of Textures
- Hundreds of Blended Tweed Colors
- USDA Accepted
- Can be Installed With 4" to 6" Integral Troweled Cove Base

PACKAGING:

The liquid components of the ES-2425 125-mil Broadcast Decorative Quartz System are available in semi-bulk and bulk liquid units for easy job-site mixing and application. The "color" quartz decorative aggregate is available in 50-lb. bags. The ES-5322 Chemical Resistant Urethane is available in 15-gal semi-bulk units.

SURFACE PREPARATION:

In general, the substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, concrete slag, disintegrated or soft base materials, and ANY previously applied and potentially incompatible coatings. Create an adequate surface profile (similar to 80 to 100 grit sand paper) on concrete by mechanical steel shot blasting and/or diamond grinding. Stress cracks, joints, holes and divots etc., should be repaired prior to the application of the system. If the concrete surface is not prepared properly, product adhesion will fail and warranties will be voided.

1. If the floor has an existing paint or coating to be removed, grind the entire area using a self-contained, dust controlled, 480-volt 30-amp, "Diamond Grinder".
2. Using a 15", 480-volt "Shot Blast" unit (Photo #2), profile the bare concrete floor surface to affect an approximate 80-grit sand paper finish to achieve a sound mechanical bonding surface for the squeegee applied, 100% solids epoxy.



Photo #1



Photo #2

3. Power sand and/or hand grind (using vacuumized diamond grinders) all edges, perimeter areas, etc. that are inaccessible to the shot blast equipment.
4. If necessary, clean out ALL expansion, isolation and control joints using a concrete saw.

- Power sweep and/or vacuum the surface to remove all laitance, dust and excess shot.

FOR OPTIMUM RESULTS:

- New Concrete Must Cure For at Least 30 Days @ 70°F and tested for acceptable moisture levels.
- DO NOT Reduce the Epoxy components of the ES-2425 Broadcast System with ANY thinner.
- DO NOT Use When Temperature of Floor is below 55° F or above 85° F or if the Humidity Exceeds R.H. of 75% Indoors.
- DO NOT Apply to Structurally Unsound Surfaces.
- Allow Each Coat to Dry Tack-Free Before Recoating.
- Apply subsequent coats within 24 Hours of Previous Coat.
- Test Compatibility With Existing Coatings Prior to Top Coating

Review ECONO SURF's Material Safety Data Sheets (MSDS) for this product prior to mixing and applying. In addition, thoroughly review the Application Guide and product labels.

General Properties:	Data
Shelf Life	2 Years
Colors	Unlimited; Multi-Colored based on aggregate blend used
Induction	None
Coverage:	Two Receiver Coats @ 53.3/gal or 30 mils; Top Coat: 80-90 @ 18-20 mils ;Finish Coat: 300 @ 5.3 mils
Mixing Ratio: (A to B)	1:2 by volume for 3150 Epoxy; 1:2 by volume for CRU clear
Application Temp & Humidity	55°F to 85°F @ less than 75% R.H.
Packaging	15 Gal and 165-gal Units of 3150 Epoxy
Working Time @ 75 °F	3150: 18-20 min.; 5322 CRU: 3-hrs.
Application Methods	Notched & Flat Squeegee & High quality 3/8" nap roller
Cure Rate @ 75 °F	
Recoat	5-6 hrs.
Foot Traffic	10 hrs.
Heavy Traffic	24+ hrs.
Chemical Resistance	72+ hrs.

Test	Method	Typical Values
Bond Strength (psi)	ACI COM #503 (pp. 1139-1141)	400+ w/ concrete failure
% Solids by Volume	ASTM D-1644	100.0
Flash Point	Pensky-Martens CC	>200°F
UV Light Resistance	Q-U-V Accelerated Weather Tester	Good
Hardness-Shore D	ASTM D-2240	84+
VOC	EPA Method 24	0.12 lbs./gal
Gloss (60°)	BYK-Gardner Tri-Gloss	90+
Impact Resistance	ASTM D-2794	160 in-lbs.
Indentation	MIL-D-3134F	None
Abrasion Resistance (mg) (CS-17 wheel, 1000 GM load, 1,000 cycles)	ASTM D-1044	55*
Flammability	ASTM D-635	Self-Extinguishing
Dry Heat Resistance		140 °F Constant 200 °F Intermittent
Compression Strength (psi)	ASTM D-695	13,100
Tensile Strength (psi)	ASTM D-638	7,100
Flexural Strength (psi)	ASTM D-790	8,250
Water Absorption (%)	ASTM C-413	0.18%

*Based on using ES-5322 CRU

MIXING:

Avoid mixing and application of these products if the floor temperature is below 55°F or above 85°F. Also, avoid application if the relative humidity is higher than 75%. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure.

Blend the Part-A and Part-B components thoroughly for a minimum of 2 minutes with a "Jiffy" or "Spiral" mixing blade attached to a low-speed (400-600 RPM) electric drill. Take care not to induce air into the material when mixing. This will cause "bubbles" in the coating when applied.

APPLICATION of 125-Mil DOUBLE BROADCAST DECORATIVE QUARTZ SYSTEM:

- Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720 or Garamite.
- Notch squeegee apply the 1st Receiver Coat which consists of 100% solids epoxy (Econo Surf 3150-Epoxy) bulked up with Sil-Co-Sil 125 and applied at an approximate blended thickness of 30-mils (53.3 sq. ft./gal), and back rolled to level using a 3/8" nap, 18" wide, roller sleeve.
- Seed (broadcast) to excess (rejection) with color quartz aggregate at the rate of 0.67 lbs. per sq. ft.
- Sweep and /or vacuum to remove all excess color quartz aggregate.
- For the 2nd Receiver Coat, steps 2, 3, 4 are repeated.
- Then notched or flat squeegee apply 20-mils (80 sq. ft./gal) of a clear, 100% solids epoxy (Econo Surf 3150 Epoxy) and back roll to level using a 3/8" or 1/2" nap (depending on the desired finished texture), 18" roller sleeve.
- Roller apply one (1) finish coat of a clear, V.O.C. compliant, chemical resistant aliphatic urethane (Econo Surf 5322 CRU) using a 3/8" nap, 18" wide, mohair roller at approximately 5 mils (300 sq. ft./gallon).
- Saw cut all moving joints as required and fill them with a flexible epoxy joint material. Sweep and /or vacuum to remove dust, debris, contamination etc. resulting from the sanding/cutting process.

POT LIFE:

Based on 75°F and 50% R.H., the Receiver Coats and Top Coat have a pot life of are 18-20 minutes. The CRU Finish Coat has a pot life of approx. 2-hrs. Using any product beyond this time will yield variable results and therefore any mixed product beyond the pot life should be discarded. Only the amount of urethane that can be applied within 30 minutes should be mixed at one time.

CLEAN UP:

Application equipment should be cleaned using soap and water or solvent where necessary. Roller covers should be discarded after use.

DISPOSAL:

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Any containers to be thrown out must be disposed in accordance with federal, state and local regulations.

CUSTOMER NOTE:

For information on application situations not covered above, contact the corporate office at 1-302-322-4920.

ECONO SURF

125-Mil Quart Broadcast System (Dealer) DS Rev: 2 4/10

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FLOOR COATINGS ETC., INC.

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PREPARATION AND INSTALLATION SPECIFICATIONS FOR:

ES-2125 125-MIL DOUBLE BROADCAST SHOP FLOOR

ES-2425 125-MIL DOUBLE BROADCAST DECORATIVE QUARTZ SYSTEM

SURFACE PREPARATION FOR EITHER SYSTEM:

1. If the floor has an existing paint or coating to be removed, grind the entire area using a self-contained, dust controlled, 480 volt 30-amp, "Diamond Grinder" (Photo #1).
2. Using a 15", 480-volt "Shot Blast" unit (Photo #2), profile the bare concrete floor surface to affect an approximate 80-grit sand paper finish to achieve a sound mechanical bonding surface for the squeegee applied, 100% solids epoxy.
3. Power sand and/or hand grind (using vacuumized diamond grinders) all edges, perimeter areas, etc. that are inaccessible to the shot blast equipment.
4. If necessary, clean out ALL expansion, isolation and control joints using a concrete saw.
5. Power sweep and/or vacuum the surface to remove all laitance, dust and excess shot.

Photo #1



Photo #2



PRODUCT INSTALLATION NOTES:

The difference between a 125-mils solid color Shop Floor and a 125-mils Decorative Color Quartz floor is that the shop floor utilizes a blend of silica sand and pigmented top coats while the decorative color quartz utilizes a blend of colored quartz particles and clear top coats.

It is also important to note that with either of these systems ALL moving joints are honored. They can be filled before the system is installed to create a seamless floor or ANY other point in the process. Consult your Econo Surf technical representative for descriptions and explanations of the different methods.

If a 4" integral cove base is being installed, it is done prior to the installation of the flooring.

PRODUCT INSTALLATION: 125-MIL DOUBLE BROADCAST SHOP FLOOR (WITH URETHANE TOPCOAT)

1. Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720 or Garamite.
2. Notch squeegee apply a coat of 100% solids epoxy (Econo Surf 2200 Receiver Coat) filled with Sil-Co-Sil 125 at the rate of 30-mils or 53.3 sq. ft./gal and back roll to level using a 3/8" nap, 18" wide, roller sleeve.
3. Seed (broadcast) to excess (rejection) with a specially blended silica aggregate at the rate of 0.67 lbs. per sq. ft.
4. Sweep and /or vacuum to remove all excess silica aggregate.
5. Steps 2, 3, 4 are repeated.
6. If an "orange peel" texture is desired, power sand the exposed aggregate at the rate of approximately 2,000 sq. ft./hour using a slow speed floor buffer equipped with a sanding head and 60-grit paper.
7. Saw cut all moving joints as required and fill them with a flexible epoxy joint material.

8. Sweep and /or vacuum to remove dust, debris, contamination etc. resulting from the sanding/cutting process.
9. Notched or flat squeegee apply 20-mils (80 sq. ft./gal) of pigmented, 100% solids epoxy (Econo Surf 3150 Epoxy) and back roll to level using a 3/8" or 1/2" nap (depending on the desired finished texture), 18" roller sleeve.
10. Roller apply one (1) finish coat of a pigmented, V.O.C. compliant, chemical resistant aliphatic urethane (Econo Surf 5322 CRU) using a 3/8" nap, 18" wide, mohair roller at approximately 5 mils (300 sq. ft./gallon).
11. Material Requirements per 1,000 sq. ft.:
 - 12.5 gallons of ES-2200 Epoxy for 1st Receiver Coat
 - 50-lbs of Sil-Co-Sil 125
 - 667 –lbs. Silica aggregate for Receiver Coat
 - 12.5 gallons of ES-2200 Epoxy for 2nd Receiver Coat
 - 50-lbs of Sil-Co-Sil 125
 - 667 –lbs. Silica aggregate for Receiver Coat
 - 12.5 gallons of ES-3150 Epoxy for Dress Coat
 - 3.3 gallons ES-5322 CRU for Finish Coat

PRODUCT INSTALLATION: 125-MIL DOUBLE BROADCAST DECORATIVE COLOR QUARTZ (WITH URETHANE TOPCOAT)

1. Pre-patch all large holes, divots, cracks, etc., using an epoxy paste made of Econo Surf 3150 Epoxy and Cab-O-Sil TS-720 or Garamite.
2. Notch squeegee apply 20-mils (80 sq. ft./gallon) of Sil-Co-Sil125 filled 1st Receiver Coat of 100% solids epoxy (Econo Surf 3150-Epoxy) and back roll to level using a 3/8" nap, 18" wide, roller sleeve. (Approx. blended thickness is 30-mils).
3. Seed (broadcast) to excess (rejection) with color quartz aggregate at the rate of 0.67 lbs. per sq. ft.
4. Sweep and /or vacuum to remove all excess color quartz aggregate.
5. Steps 2, 3, 4 are repeated.
6. Notched or flat squeegee apply another 20-mils (80 sq. ft./gal) of a clear, 100% solids epoxy (Econo Surf 3150-Epoxy) and back roll to level using a 3/8" or 1/2" nap (depending on the desired finished texture), 18" roller sleeve.
7. Saw cut all moving joints as required and fill them with a flexible epoxy joint material.
8. Sweep and /or vacuum to remove dust, debris, contamination etc. resulting from the sanding/cutting process.
9. Roller apply one (1) finish coat of a clear, V.O.C. compliant, chemical resistant aliphatic urethane (Econo Surf 5322 CRU) using a 3/8" nap, 18" wide, mohair roller at approximately 5 mils (300 sq. ft./gallon).
10. Material Requirements per 1,000 sq. ft.:
 - 12.5 gallons of ES-3150 Epoxy for 1st Receiver Coat
 - 50-lbs. Sil-Co-Sil 125
 - 667–lbs. Color Quartz aggregate for 1st Receiver Coat
 - 12.5 gallons of ES-3150 Epoxy for 2nd Receiver Coat
 - 667–lbs. Color Quartz aggregate for 2nd Receiver Coat
 - 12.5 gallons of ES-3150 Epoxy for Top Coat
 - 3.3 gallons clear ES-5322 CRU for Finish Coat

TEXTURED AND NON-SKID SURFACES STATEMENT:

- The degree or amount of texture or non-skid that is used in a given coating is a relative decision. Therefore, it is imperative that our customer determine the degree of non-skid required for his/her particular floor. FCEI cannot and will not accept the liability or responsibility for this decision.
- Our supervisor will be happy to inform your representative several hours in advance of when the non-skid or textured finish will be installed. Should you choose not to have one of your representatives present during this process, you are hereby accepting the degree of non-skid that will be installed by our supervisor.