ES-2565 Broadcast/Resurfacer Composite System

DATA SHEET

DESCRIPTION:
ES-2565 Resurfacer Composite System is a multi-product system that includes a 100% solids epoxy Resurfacer (ES-1100 Resurfacer), and a solid-color, full aggregate broadcast system (ES-3065 Broadcast). The ES-2565 Resurfacer Composite System is generally applied at total thickness of 250-Mils.

RECOMMENDED USES:
When the ES-1100 Resurfacer & ES-2065 65-Mil Broadcast systems are combined, they become a specialize composite system which cures chemically to an extremely tough, corrosion, and abrasion resistant surface that has good non-skid characteristics. Typically used in areas exposed to heavy industrial traffic from forklift trucks and steel wheeled carts. Also used in areas that are exposed to impact and abrasion from heavy equipment.

FEATURES:
- Decorative, multi-colored appearance
- Good Chemical Resistance
- Good Abrasion Resistance
- VOC Compliant
- Solvent Free….Odorless
- Gloss Finish
- USDA Accepted
- Smooth or Anti-Slip Finishes

PACKAGING:
ES-2565 Resurfacer Composite System is comprised of ECONO SURF's 1100 Resurfacer System and a solid color ES-2065 Broadcast system.

<u>ES-1100 Resurfacer System</u>
- Resurfacer Primer A&B
- ES-1100 Resurfacer A&B&C
- ES-3000 Top Dressing

<u>ES-2065 Broadcast System</u>
- ES-2200 Receiver Coat
- ES-360C Broadcast Aggregate
- ES-3150 Grout Coat with Colorant
- ES-5322 Chemical Resistant Urethane (optional)

The ES-1100 Resurfacer and the ES-2065 Broadcast systems are available in semi-bulk and bulk units.

FOR BEST RESULTS:
- For Interior Use Only
- DO NOT thin the 2565-Broadcast-Resurfacer Composite System Components
- Apply a Test Patch to Ensure Compatibility
- DO NOT Allow Material to Puddle During Application
- Allow Each Coat to Dry Tack-Free Before Re-coating
- DO NOT USE when Humidity Exceeds 75% Indoors
- Apply Topcoat within 24 Hours of Previous Coat
- New Concrete Must Cure For at Least 30 Days
- Discard any Material Subjected to Freezing

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, paints and loose coatings, foreign particles, and disintegrated or soft base materials. Create a surface profile on concrete by either steel shot blasting or acid etching. Repair cracks and joints with 1100 Resurfacer. Remember, for a proper cure, the floor & air temperature must range between 55°F and 85°F prior to application.

1. Shot or bead blast the entire area to remove all contaminants and to profile the surface to achieve a sound mechanical bonding surface for the new flooring materials.
2. Power sand and/or grind the blasted surface as required to remove all loose laitance or contaminants left from the shot blasting operation.
3. Power stone grind all perimeter areas and/or areas inaccessible to the shot blast unit.
4. Sweep and/or vacuum the surface to remove all laitance, dust and excess shot.

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 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:

3/16" Troweled Flooring

1. Pre-fill low spots, holes, or cracks with epoxy fill material.
2. Apply the100% solids epoxy Resurfacer Primer with squeegee and back roll @ 8-10 dry mils.
3. Screed out a nominal one-quarter inch of blended epoxy/silica mortar and power-trowel to compact and finish to 3/16"
4. Power sand the cured mortar to remove excessive trowel licks, slag, or splash material.
5. Saw cut joints as requested and fill them with a flexible joint material.
6. Sweep and/or vacuum off all loose particles and contaminants.
7. Flat squeegee apply one coat of clear ES-3000 Epoxy Top Dressing and back roll to fill in any porosity.

1/16 Full Aggregate Broadcast Floor System

1. Power sand or grind the newly installed system to remove any trowel marks, etc. prior to beginning the application of the Broadcast system.
2. Notched squeegee apply the clear, 100% solids 2200 Receiver Coat at 18 mils bulked up to 30-mils and back roll as evenly as possible.
3. Immediately seed (broadcast) to excess with blended silica aggregate at the rate of 0.67 lbs. per square foot.
4. Sweep and /or vacuum to remove all excess aggregate.
5. Power sand the exposed aggregate to achieve the desired finish texture prior to applying the final dress coat using the ES-3150 Epoxy coating.
6. Joint treatment, if required, can be done a number of ways and at different stages of the application process.
7. Sweep and /or vacuum to remove dust/contamination resulting from the sanding/cutting process.
8. Notched or flat squeegee apply 18-20 mils of the pigmented, 100% solids epoxy (ES-3150 Epoxy) and back roll.

OPTIONAL – CHEMICAL RESISTANT URETHANE

1. A two (2) component, chemical resistant urethane can be applied to the cured ES-2565 Resurfacer Composite System to obtain better abrasion resistance and a longer lasting gloss.
2. This final top coat is applied at the rate of 300-333 sq. ft. per gallon, using a high quality, ½" nap, 18" roller.

POT LIFE:

At 75°F and 50% R.H.:

Product	Time
ES-1100 Resurfacer System	20-22 minutes
ES-2200 Receiver Coat	25-30 minutes
ES-3150 Epoxy Coating	20-25 minutes
ES-5322 Urethane	35-45 minutes

Using any product beyond its pot life will yield undesirable results and therefore any mixed product beyond the pot life should be discarded.

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	Resurfacer 20-22 min. Receiver Coat: 25-28 min.; Top Coat: 18-20 min.
Application Methods	Resurfacer system: Hand or Power Trowel; 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.
Flammability	ASTM D-635	Self-extinguishing
Dry Heat Resistance		140 °F Constant 200 °F Intermittent
Indentation	MIL-D-3134F	None
Abrasion Resistance (mg) (CS-17 wheel, 1000 GM load, 1,000 cycles)	ASTM D-1044	55*
Thermal Coefficient of Linear Expansion	ASTM D-696	3.7 x 10^{-5} in/in/°F
Compression Strength (psi)	ASTM C-579	15,100
Tensile Strength (psi)	ASTM C-307	2,560
Flexural Strength (psi)	ASTM C-580	4,250
Water Absorption (%)	ASTM C-413	0.18%

*Based on using ES-5322 CRU as final coat.

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. 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 your local ECONO SURF representative or the corporate office at 302-322-4920

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