



SUPERIOR QUALITY

COMPETITIVE PRICING

EXCELLENT CUSTOMER SERVICE

Technical Data Sheet

SCU

Single Component Urethane

Highlights:

- Crystal clear coating enhances color and provides long-term protection
- Easy to use
- Suitable for various flooring systems including coatings, slurries, mortars, urethane cement, flake, color quartz, and metallic floors
- Will not yellow or deteriorate under UV lighting
- Compatible with Universal Pigment Packs
- Hot tire pick up resistant
- High UV resistance
- High abrasion, scratch, and chemical resistance
- Fast cure for rapid return to service
- Supports foot traffic after 4 hours, heavy traffic after 24 hours
- Any place with extreme traffic conditions

Limitations:

- Do not apply greater than 5-6 wet mils
- Do not apply in humidity greater than 50%
- Do not apply in temperatures over 90°F
- Working time: 20 minutes at 70°F
- Do not let sit in pail; exotherm of material will decrease working time
- High temperatures will decrease working time
- Excess humidity will cause foaming and bubbling
- Do not apply over 3 lbs MVT ASTM 1869
- Do not apply when temperature and humidity are within 5 degrees of each other (condensation will occur)

Packaging

1 Gallon
5 Gallon

Uses

- Kitchen floors
- Bathrooms
- Cage wash areas
- Food and beverage facilities
- Battery charging rooms
- Garage floors
- High traffic industrial aisleways
- Loading docks
- Manufacturing process areas
- Pharmaceutical plants
- Automotive facilities

Material Properties

Mixed VOC Content:	60
Mix Ratio (by volume):	N/A
Tack Free Time:	3-4 hours
Recoat Time (min/max):	5Hrs/24Hrs
Light Foot Traffic:	12 hours
Vehicular Traffic:	24-36 hours
Solids Content:	60%
Bond Strength:	400PSI

Abrasion Resistance: ASTM D4060, CS-17 Wheel, 1000 cycles, 1kg load-65mg loss

Adhesion: ASTM D4541 – 1651 psi

Direct Impact (topcoat only): ASTM D2794 – Pass

Flexibility (topcoat only): ASTM D522 – 180° bend over 1/8" mandrel

Tensile Strength: ASTM D412 – 2500 PSI ± 200

Elongation at Break: ASTM D412 – 300%

Description: CSI SCU is 55% solids, low VOC, single-component polyurethane that is easy to apply. This coating offers the unique properties of a 2 2-component polyurethane in a single-component product. It is highly UV resistant and ideal for use both indoors and outdoors. It bonds tenaciously to concrete and can be applied as a sealer for grind and seal applications. It is also ideal for use as a finish coat for decorative systems such as stained floors, flake floors, and metallic floor systems. It can be used as a topcoat over coatings, slurries, and mortar systems. The coating offers excellent open time, allowing ease of installation, but cures quickly (dry to the touch in 2-3 hours). It will support light foot traffic in 4 hours and is ready for service in 24 hours at 70°F.

Surface Preparation: CSI SCU is intended solely as a clear topcoat. Whenever possible, recoat within the recommended recoat window of the previous layer. If recoating outside this window or after 24 hours, sand the surface with a 60-120 grit sanding screen to ensure proper adhesion between coats. Thoroughly vacuum the dust, rinse with clean water, and remove excess water using a wet/dry vacuum or floor scrubber. Allow the surface to dry completely before applying the coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop.

CAUTION: Acetone is extremely flammable! Follow all safety precautions, ensuring no pilot lights, open flames, sources of static electricity, sparks, or extreme heat sources are present. Use the recommended personal protective equipment when handling acetone.

The substrate, air, and material temperatures should be between 50°F and 80°F. Applying the coating outside these limits may result in inadequate film formation, leading to air entrapment, bubbles, blushing, or hazing. Higher temperatures and excessive humidity can accelerate the curing process, while cooler temperatures and lower humidity can slow it down.

FOR PERSONAL PROTECTION: Use gloves, goggles, a respirator, and other necessary PPE. Refer to the SDS before use!

Pre-mixing: Mix SCU-60 for 1 minute using a Jiffy-type paddle mixer attached to a low-RPM drill. Avoid creating a vortex during mixing, as this may entrain air into the material.

Pigment Addition: After pre-mixing, immediately add the full contents of the Universal Pigment Pack. Ensure the entire pigment pack is emptied into the SCU-60 to prevent uneven color distribution. Use 1 pigment pack per 1.5 gallons of SCU-60 (by volume). Mix for 3 minutes until the material is uniform in color. **Do not hand mix.**

Application Timing: Apply the material to the floor immediately after mixing.

Note: Once opened, the product cannot be resealed for later use.

Yield: 300 sqft per gallon*

*Coverage rates may vary depending upon surface porosity, texture, application method and prior coating application. Do not apply greater than 5-6 wet film mils.

Handling Precautions

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product. It is the user's responsibility to review instructions and warnings for any CSI products.

Avoid contact with the skin and use protective equipment as required. Wear protective gloves, protective clothing, eye protection, face protection and appropriate respirator equipment. Use in well ventilated areas. Dispose of contents and containers in accordance with local, state and federal regulations.

Warranty

CSI SCU is a proprietary product that is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact CSI.

Application and Clean Up

CSI SCU may be applied by roller or squeegee. Tools may be cleaned with Xylene, or other solvents prior to material hardening.

Shelf Life

CSI SCU has an 8 month shelf life from the date of manufacturing when properly stored in a dry, temperature-controlled environment.

First Aid

EYES: Flush thoroughly with water, lifting both eyelids. Get immediate medical attention.

SKIN: Wash with soap and water. If irritation develops seek medical attention.

INGESTION: Do not induce vomiting. Get immediate medical attention.

INHALATION: Remove to fresh air immediately. If breathing difficulty continues, administer oxygen. Get immediate medical attention.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. CSI recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. CSI or its sales agents will not be responsible for injury incurred in a slip and fall accident.