

### Features

- Aliphatic (UV Resistant)
- High Gloss
- High Solids
- Abrasion resistant
- Single component
- 9 colors available

### Benefits

- Interior or exterior use
- Attractive appearance
- VOC compliant
- Excellent protection against heavy traffic
- Easy to use

### Typical Uses

- Horizontal concrete
- Interior or exterior
- Residential or Commercial
- Heavy traffic areas

### Product Description

SuperGlaze VOC is a single component, high gloss, aliphatic moisture cure urethane designed for interior or exterior use. It is most commonly used as a finish clear coat over any CCI acrylic, acid stain, or epoxy flooring system. Because of its UV resistance, it provides excellent protection against damaging ultra-violet rays that can cause yellowing and discoloration. It is often the choice for many contractors because of its outstanding durability and resistance to wear in heavy traffic commercial areas. Its low odor characteristics make it ideal for interior use in residential, commercial, and industrial areas.

Available in 9 colors, it provides the perfect economical solution to virtually any situation, providing amazing versatility, and years of maintenance-free durability. When combined with a 100% solids epoxy priming system such as CCI Shield 50, SuperGlaze VOC is unequaled in the market place in terms of durability, gloss retention, and abrasion resistance

### How to apply SuperGlaze VOC

#### Surface Preparation

Floors must be structurally sound and fully cured a minimum of 28 days. Test floor for vapor drive in accordance with ASTM D 4263.

Repair concrete and install joint sealants and fillers as necessary.

Mechanical surface profiling is the preferred floor preparation method for both new and existing concrete. It is the only acceptable preparation method where warranties are to be issued. Mechanically profile the floor to medium-grit sandpaper texture and remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions.

Clean floors of oil, grease, and other bond inhibiting materials not removed by shotblasting or other mechanical means with Citrus Degreaser

**Always apply a test patch to ensure compatibility with substrate, and that the application meets the owner's expectations.**

For recoat applications properly degloss the existing coating and follow Step 5 regarding test patches.

#### Priming

**Interior:** Floors to be coated with SuperGlaze VOC must first be primed. CCI provides two options for priming floors depending on the degree of surface profile or texture.

Prime 'N' Seal is a water-based epoxy primer used on floors with a light profile. When applied, Prime 'N' Seal has a dry film thickness of 2 to 3 mils (0.05 mm).

Prime 302 or Shield 50 are self-leveling 100% solids primer systems. Primer is recommended for filling irregular or highly profiled floors. Using rollers, straight-edged or serrated squeegees, primer can

be applied to a dry film thickness of 10 to 140 mils (0.25- 3.8 mm).

**Exterior:** For exterior application, a primer is not recommended. Instead, apply two coats of SuperGlaze VOC according to application instructions.

#### Mixing (pigmented only)

**When used as a clear coat, no mixing is required**

This product has a limited pot life; complete all preparations before starting the mixing sequence. It is very important to properly mix this product to ensure proper film formation.

**Transparent:** Wear protective gloves and goggles to avoid injury from splashes. Using a 21" (0.5 m) Jiffy Mixer (see CCI Accessories Catalog) in an electric drill, mix the coating for 2 - 3 minutes. Keep the mixer blades submerged to avoid introducing air bubbles.

**Colors:** Use **only** SuperGlaze CCI Color Additives.

Slowly add the desired color additive into SuperGlaze VOC, being careful not to spill any pigment. Scrape down the sides of the color additive container to ensure color consistency. Wear protective gloves and goggles to avoid injury from splashes.

**DO NOT MIX BY HAND.** Using a 21" (0.5 m) Jiffy Mixer in an electric drill, blend in the Color additive at low speed for 2 -3 minutes. Scrape the sides of the container several times and continue mixing until color is uniform. Keep the mixer blades submerged in the coating to avoid introducing air bubbles.

**Pot life:** approximately 2 hours at 75°F (24°C) and 50% relative humidity.

#### **Application**

Floor and atmospheric temperature must be between 60°F (16°C) and 85°F (29°C) during the application of the coating.

Atmospheric, floor, and liquid temperatures should always be monitored when applying any polyurethane coating. Lower temperatures will slow and warmer temperatures will accelerate the curing of the coating.

Apply material from a roller tray or bucket using a high-quality 3/16" to 3/8" (5 to 10 mm) nap solvent-resistant roller. An overhead frame roller should be used for large applications. Do not squeegee and back roll. Apply with roller and cross roll material. To reduce bubbling, avoid excessive agitation of the liquid with the roller. For colors, multiple coats may be required to achieve the desired color density.

High-performance floor coatings become slippery when wet. For a finely textured slip-resistant surface, uniformly broadcast washed, dry, rounded 70 to 90 mesh silica sand or aluminum oxide into the wet topcoat at a rate of 3 to 5 pounds per 100 square feet (0.15 - 0.25 kg/m<sup>2</sup>).

For a coarser textured surface, broadcast 40 to 50 mesh silica at a rate of 4 to 10 pounds per 100 square feet (0.19 - 0.05 kg/m<sup>2</sup>). Backroll to encapsulate and

distribute the aggregate. Sweep up or vacuum excess aggregate immediately after the first coat has dried.

A final clear coat is recommended to provide maximum performance. **DO NOT** use in fire stations. In areas where vehicles sit for an extended period of time, tire plasticizer staining will occur.

For greater ease in cleaning, apply a final finish coat within the recommended recoat time. Slip resistance will vary depending on the coating thickness during application. For more information, contact Technical Services at 1-800-443-2871.

#### **Curing Time**

•Tack free	4 hours
•Foot traffic	24 hours
•Heavy traffic	72 hours
•Complete cure	7 days
(all properties)	

Drying times assume 75°F (24°C) and 50% relative humidity. If a second coat is desired, allow a minimum of 16 hours, but no more than 48 hours between applications; otherwise screening and abrading the surface is required.

#### **Clean Up**

Use Xylene or Lacquer Thinner.

#### **Maintenance**

For maximum life expectancy, routinely sweep and wash floors with conventional cleansers and detergents. All abrasive grit and corrosive spills should be wiped up as soon as possible. Do not steam clean. When the visible film or color begins to show signs of wear, the dust-proofing performance of the floor will still remain intact. The film should be inspected periodically for wear, breaks, or gouges. Damaged or worn areas may be renovated by reapplying the coating to regain original gloss and protection. When recoating, consult CCI Technical Services for specific instructions.

#### **For Best Performance**

- Always apply a test patch to ensure compatibility with substrate and to ensure that the application meets the owner's expectations.**
- Apply with adequate ventilation.
- Do not subject to continuous water immersion.
- Not designed for vertical applications.
- Do not use where moisture can reach the underside of the coating. A vapor barrier may be required.
- Make certain the most current version of this data guide is being used. Recoating on textured or stamped concrete surfaces may require extensive surface preparation procedures. Adhesion tests are required. In certain instances, recoating of these surfaces may be very difficult. Contact CCI Technical Services for recommendations.
- DO NOT** use in fire stations.
- SuperGlaze VOC film may crack if applied directly over elastometric sealants.

## Troubleshooting

### Problem: likely causes

- ❑ **Orange Peel, wrinkling:**  
Product applied too heavily; product recoated too soon after application; product not compatible with previous coating; first coat never cured because of weather extremes.
- ❑ **Slow Cure:**  
Cool temperatures; inadequate ventilation during application or curing process; product applied thick; improper mixing of color additive.
- ❑ **Low gloss, dull finish:**  
Improper weather conditions; improper ventilation; solvent entrapment.
- ❑ **Roller marks, bubbles, product curing too quickly:** A high temperature and humidity extremes; product applied too thin; improper solvent or tint added to product.
- ❑ **Fish eyes:** improper substrate cleaning; "tacking" with solvent not approved; surface contamination; contact with airborne contaminants, silicone, oil.
- ❑ **Poor intercoat adhesion:** past critical recoat time.
- ❑ **Grit in floor:** improper application tools; dusty environment; dirty substrate

### Warning

SuperGlaze VOC contains ethyl benzene, 1,3-butylene glycol, xylene, isophorone diisocyanate, ethyl ethoxy propionate.

### Risks

Flammable liquid and vapor. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness and nausea. May cause skin and eye irritation. Potential skin and /or respiratory sensitizer. Ingestion may cause irritation. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

### Precautions

KEEP AWAY FROM HEAT, FLAMES AND SOURCES OF IGNITION. KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes or clothing. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state, and local regulations. Wash thoroughly after handling. Keep container closed. DO NOT cut or weld on or near empty container. Empty container may contain explosive vapors or hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

### Fist Aid

In case of eye contact , flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

### Proposition 65

This product contains materials listed by the state of California to cause cancer, birth defects, or other reproductive harm.

### VOC Content

302 g/L or 2.8 lbs/gal less water and exempt solvents.

**For medical emergencies only, call ChemTrec  
(1-800-424-9300)**

## Technical Data

### Typical Properties

Property	Result	Method
Tack-free time, hours	4	
Solids by weight, %(min)	66.3	
by volume, %(min)	62.5	
Flashpoint, °F (°C)	96 (36)	
Viscosity, cps	350	
Pot life, hours	2	
<b>VOC Content, g/L</b>	302	ASTM 2697

### Test Data

Property*	Result	Test Data
Tensile strength, psi	4000	ASTM D 882
Elongation %	17	ASTM D 882
Abrasion resistance (mg lost, CS-17 wheel, 1000 g load, 1000 cycles)	68.4	ASTM D 4060
Coefficient of friction Dry	0.69	ASTM D 2047 (Min of 0.5 to qualify as slip resistant)
Pencil Hardness (min)	HB	ASTM D 3363

\*Coating cured 7 days RT

Chemical Resistance ASTM D 1308	Resistance Level
30 % sulfuric acid	Slight effect (spills but not immersion)
Acetone	Slight effect (spills but not immersion)
Methyl ethyl ketone	Slight effect (spills but not immersion)
Mineral spirits	Excellent
Gasoline	Excellent
Jet Fuel	Excellent
Xylene	Excellent
Aromatic 100	Excellent
Isopropyl alcohol	Excellent
Brake Fluid	Slight effect, softening
Skydrol	Slight effect, softening
Bleach	Slight effect, staining

Coating cured 7 days at 77°F (25°C) 72 hour spot test at 77°F (25°C)

**USERS RESPONSIBILITY & DISCLAIMER OF LIABILITY:** A bulletin such as this cannot be expected to cover all possible situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where precautions – in addition to those described herein are required. Although the information contained herein is based on data considered to be accurate, all materials present unknown health hazards, and should be used with caution and by properly trained personnel. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Any health hazard and safety information should be passed onto your customers or employees, as the case may be. Final suitability of the chemical for each circumstance is the sole responsibility of the end user. No representation or warranties either expressed or implied, of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein, or the chemical to which the information refers. It is the sole responsibility of the end user to comply with all applicable federal, state and local laws and regulations. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed.

Customer/Technical Service 800-443-2871  
 Fax 801-544-5896  
[www.concretecoatingsinc.com](http://www.concretecoatingsinc.com)