

*Don't Just Seal It. ConSeal It!*

Proper preparation should be followed to ensure adequate coating adhesion to concrete and to optimize product performance. The following ASTM standards have been drafted in order to maximize concrete coating applications:

- ASTM D 4258 Standard Practice for Surface Cleaning of Concrete for Coating
  - ASTM D 4259 Standard Practice for Abrading Concrete
  - ASTM D 4260 Standard Practice for Acid Etching Concrete
- Additional guidance can also be found in SSPC-SP 13/NACE NO. 6 SURFACE PREPARATION OF CONCRETE.

### Surface Preparation

- All curing agents, hardeners, oil, grease, form release oil, dirt, laitance, concrete dust or other contaminants must be removed prior to beginning coating processes.
- Surface preparation methods should result in clean concrete, devoid of contaminated surfaces with ideally an adequate surface profile (surface similar to medium grade sandpaper).
- Inspect surface for soundness. Repair or remove any surface irregularities and loose concrete. Use an approved crack filler on holes and cracks. When surface is clean, sound and dry proceed with coating application.
- When using CS-55 for the first time it is advisable to coat a small test patch on representative concrete and verify adhesion level before proceeding to large scale coating projects.

### Application Tips

- Stir thoroughly before applying.
- CS-55 may be applied by spraying, rollers or by brush. If applying by airless spray a spray tip of 0.011" – 0.013" is recommended.
- In order to avoid "cracking" do not allow product to pool and do not apply the coats too thick during application.
- When applying multiple coats of CS-55 apply at right angles to maximize film integrity.
- The key to successful applications requires a "build up" of the product barrier thickness. This is best done with 2 – 3 applications of CS-55
- When spraying hold spray gun 12-24" away from the surface, spray an even light coat over the entire surface.
- When surface becomes dry to touch, subsequent coats may be applied.

### Application Temperature & Curing Time Requirements

- Product may be applied to concrete structures between 40°F and 120°F. To limit outgassing, apply during the warmest part of the day.
- Do not apply CS-55 when the ambient temperature or concrete surface temperature is below 40°F. Do not apply to frozen concrete.
- CS-55 will normally be dry to the touch within 30 minutes of application (77°F/50% RH). Higher ambient temperatures will speed up dry times while lower temperatures will slow down cure time.

### Application Properties

|                |  |                             |  |
|----------------|--|-----------------------------|--|
| Color:         | Black  | Mix Instructions:           | Mix lightly prior to use to assure homogenous mix.   |
| Viscosity:     | 2000 – 4000 centipoise   | Recommended Film Thickness: | 2.0 – 5.0 mils dry (5 – 11 mils wet).  |
| Coverage Rate: | 344 ft <sup>2</sup> /gal yields 2 mil dry coverage<br>229 ft <sup>2</sup> /gal yields 3 mil dry coverage<br>172 ft <sup>2</sup> /gal yields 4 mil dry coverage<br>138 ft <sup>2</sup> /gal yields 5 mil dry coverage | Cure Time:                  | Dry to touch in 30-60 minutes at 77°F/50% RH. Subsequent coating application may begin once the previously applied coating is dry to the touch. Complete curing is typically complete in 7 days. |

### Storage and Disposal

**Do not freeze!** Keep containers closed when not in use. Store between 40°F and 90°F. In case of spillage, absorb with inert material such as sand or kitty litter. Dispose of in accordance with local, state and federal regulations.

### Clean Up

Clean equipment and spills while the product is wet for best results. Cleans up with warm, soapy water.

**Disclaimer:** This publication is to assist users to understand the proper use of ConSeal's products. Contact ConSeal's technical staff for installation instructions that meet your specific requirement. Concrete Sealants, Inc. does not warranty any improper use of its products.