

# CONCRETE STAIN & SUPPLY, LLC

## Technical Data Sheet (TDS) CR-510 INSIDE ACRYLIC

\*\*This product may only be used on fully cured concrete. Allow a minimum of 28-45 days of cure time after the concrete is poured to allow ample time for the concrete to completely hydrate.

### Product

CR-510 Inside Acrylic is a water-reducible acrylic emulsion. It is based on a hard polymer with ultra-small particle size that gives the coating excellent substrate penetration and gloss. The material has excellent UV stability and will not chalk or yellow. It may be applied at temperatures as low as 40°F without film formation problems.

### Limitations

- Not suitable as a finish coat in heavy traffic areas.
- Air and substrate temperatures must to 40°F and rising.

### Physical Properties

Solids Content, by Weight (Pigmented) .....	43.5%
Solids Content, by Weight (Clear) .....	25%
Volatile Organic Compounds.....	72 grams/liter
Cure Times (77 degrees)	
Recoat .....	20-40 minutes
Light Traffic.....	12 hours
Full Cure .....	3 days

Higher temperatures and lower humidity will shorten cure times. Lower temperatures and higher humidity will lengthen cure times.

### Performance Properties

Gloss (60 degrees).....	82
Hardness (SRH) .....	2H
Flexibility (ASTM D-222) .....	passes 1/8 inch
Impact Resistance (ASTM D-2794) ...	passes 80 inch pound direct and reverse impact

### Coverage

Coverage rate is 200-400 sq ft per gallon. Coverage variations depend on concrete surface porosity and amount of material applied.

### Surface Preparation

Concrete must be clean and free of dirt, dust, oil, grease, mold and mildew, and any other contaminants.

RAC Stained concrete must be neutralized, thoroughly cleaned, and dry prior to sealing.

WRC Stained concrete must be completely dry prior to sealing.

All new concrete should be allowed to cure for a minimum of 45 days, or until a pH reading of 10.5 or less is achieved.

Concrete must be completely dry prior to sealer application. It is strongly recommended that a surface probe moisture meter be utilized to verify the surface is dry. After visually determining the concrete is dry, test a minimum of 10 different areas of the concrete with the moisture meter. Pay special attention to cracks, control joints, and slab edges.

### Application Tools

- Roller and Brush or
- Airless sprayer

### **Application Recommendations**

Stir well before use. Pour CR-510 Inside Acrylic through a strainer prior to use. Apply by using a 3/8" or 1/2" roller. Dip directly into a roller pan and distribute the material by rolling laterally and then up and down (crosshatch rolling). Roll the material into a wet edge, and avoid excessive back rolling. When applying 2 coats, roll the second coat perpendicular to the first. Keep containers closed when not in use. Unattended, open material will form a skin on the surface.

### **Thinning**

Do not thin CR-510 Inside Acrylic

### **Drying Time**

Dry to touch: 20-40 minutes

Recoat: 1 hour

Light Foot Traffic: 3 hours

Full Cure: 72 hours

These dry times are for 75 degree (F) temperatures and medium humidity. Low temperatures will slow drying and curing time.

### **Clean Up**

Tools can be cleaned with soap and water.

### **Storage and Shelf Life**

Do not allow to freeze. Shelf life of unopened product is approximately one year.

### **Limitations**

Not suitable as a finish coat in commercial and/or heavy traffic areas. Air and substrate temperatures must be minimum 50°F. Do not apply when air or surface temperature exceeds 90 degrees (F) or LAP marking / poor penetration / bubbling may result. Do not apply to wet or damp concrete, moisture will inhibit penetration of the sealer and cause improper curing, flaking or lifting of the sealer. Do not apply if dew may condense on the surface before the sealer has cured. Allow for extended dry times during cold weather / high humidity.

### **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. Concrete Stain & Supply, LLC 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. Concrete Stain & Supply, LLC or its sales agents will not be responsible for injury incurred in a slip and fall accident.

### **Moisture Vapor Emissions/Alkalinity Precautions**

All interior concrete floors not poured over an effective moisture vapor barrier/inhibitor are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings.

### **Warranty**

The Manufacturer and/or the Seller warrants that if any goods supplied prove defective in workmanship or material, that Manufacturer and/or Seller shall replace them or refund the purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for his intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Manufacturer and/or Seller be liable for incidental, consequential or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Manufacturer and/or Seller for any claims arising out of the use or sale of the product shall be for the User's purchase price. Any claim of defective product must be received in writing within one (1) year from date of shipment.