

CONCRETE STAIN & SUPPLY, LLC

Technical Data Sheet (TDS)

CR-530 Inside Epoxy

**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-530 Inside Epoxy is a two component 100% solids resin system used as a low, medium or high build coating. Inside Epoxy provides an outstanding balance of strength, flexibility, chemical resistance, and excellent clarity. Inside Epoxy can be used as a primer coat for CR-540 Inside Urethane or as a stand alone coating on floors with minimal UV exposure.

As a stand alone coating Inside Epoxy is not recommended for food processing areas, commercial kitchens, wineries or other areas that receive constant corrosive exposure.

Inside Epoxy is packaged as a convenient kit. The resin(Part A) is in a short filled one gallon can with a one quart hardener (Part B) “kicker”. Simply dump the entire contents of Part B into the Part A can and mix.

Coverage

Coverage rate is 200-400 sq ft per gallon (150-300 sq ft per kit). 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, Trowel, or Squeegee

Mixing Instructions

Open the one gallon can of Part A resin and add the entire contents of the one quart Part B hardener. Use a spatula to empty the entire contents of the Part B hardener into the Part A can. It is critical to have an exactly portioned mixture, which has been prepackaged for you to eliminate any guesswork or measuring. After combining the two components use a squirrel cage mixer on a low speed drill for 2 minutes to completely mix the components. Be careful to not whip air into the mixture, and be certain to scrape the sides and bottom of the can to combine all molecules. Incomplete mixing or an off balance mixture will result in a coating that will remain soft forever.

Application Recommendations

CR-530 Inside Epoxy can be applied at a rate of 3 to 8 mils thick.

Cure Rate/ Drying Time

Dry to Touch.....6 hours

Light Traffic.....16 hours

Full Cure.....7 days

Pot Life at 77degrees (F)..... 30 minutes

Thinning

Do not thin.

Additional coats

Previously coated surfaces must be mechanically cleaned and abraded using a floor machine (buffer) with 80 mesh sanding screen prior to application.

Clean Up

Discard used consumable items such as roller pans, roller covers, brushes, etc.

Storage and Shelf Life

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

Performance Properties

Tensile Strength, psi (ASTM D-638).....	6,230
Ultimate Elongation, % (ASTM D-638).....	11
Compressive Yield Strength, psi (ASTM D-695).....	9,850
Ultimate Compressive Strength, psi (ASTM D-695)	19,501
Ultimate Flexural Strength, psi (ASTM D-790).....	9,680
Hardness, Shore D (ASTM D-2240)	83
Bond Strength to Concrete (ACI 503.4-2.3.2.2)concrete fails before loss of bond	

Chemical And Stain Resistance (ASTM D-1308 24 Hour Immersion)

Vegetable Oil	no effect
Mustard	no effect
Urine	no effect
Gasoline	no effect
Motor Oil	no effect
Transmission Fluid.....	no effect
Brake Fluid.....	slight softening, film recovers
Mineral Spirits	no effect
10% Sulphuric Acid.....	no effect
10% Hydrochloric Acid	no effect
10% Acetic Acid.....	no effect
Xylene.....	slight softening, film recovers
MEK	film destroyed

Limitations

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.

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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.

Safety

Do not breathe vapors. When using in confined or limited ventilation areas, use appropriate organic vapor respirator to protect against methyl amine vapors. Avoid contact with skin; wear protective gloves and clothing. Always use eye protection such as goggles, face shield or safety glasses. Read Material Safety Data Sheet before using.

First Aid

Eye Contact: Immediately flush eyes with plenty of water for at least 15 min while holding eyelids open. Seek medical attention.

Skin Contact: Immediately remove contaminated clothing. Wipe excess from skin and wash with soap and water. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air and provide oxygen if breathing is difficult. Seek 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. 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.