



INSIDE GLOSS URETHANE

40% SOLIDS GLOSS FINISH WATER BASED URETHANE

Inside Gloss Urethane is a high gloss, two-component water based aliphatic polyurethane with excellent color enhancement properties. Inside Gloss Urethane has excellent adhesion and hardness properties as well as abrasion, hot tire, and chemical resistance. Inside Gloss Urethane is low VOC and low odor with multiple uses.

Specifications / Compliances • Dried coating is USDA accepted • Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.



KEY FEATURES & TYPICAL BENEFITS

- Low viscosity allows for excellent substrate wetting and penetration.
- Provides superior resistance to many common chemicals, solvents and hot tire pick up.
- Excellent abrasion resistance that rivals many solvent based products.
- Gloss finish and low odor make this ideal for many interior applications.
- VOC compliant for most areas in the United States and Canada.

Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	40%
Pot Life	45 Minutes
Dry Time - Tack Free	5 - 6 hours
Dry Time - Foot Traffic	16 - 20 hours
Dry Time - Heavy Traffic	4 - 7 days
Re-Coat Time Window	6 - 12 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 100 grams/Liter (Mixed A&B)
Appearance - Dry	Clear and Gloss Finish

Information above is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.

RECOMMENDED APPLICATIONS

- Grind and seal applications
- Over 10 Second Color - Polishing Dye
- Over other stain systems
- Garages and Shops
- Showrooms and Offices
- Many interior applications where a low odor, gloss finish, abrasion resistant coating is required.

FOR PROFESSIONAL USE ONLY



ENGRAVE-A-CRETE

CONCRETE RESURRECTION

Technical Data Sheet (TDS) CR-546 High Gloss WB Urethane

40% Solids Gloss Finish Water Based Urethane

****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

Concrete Resurrection CR-546 High Gloss WB Urethane is a high gloss, two component water based aliphatic polyurethane with excellent color enhancement properties. CR-546 High Gloss WB Urethane has excellent adhesion and hardness properties as well as abrasion, hot tire, and chemical resistance. CR-546 High Gloss WB Urethane is low VOC and low odor with multiple uses (Garages, shops, showrooms and offices as well as many other interior applications).

Coverage

First Coat – Direct to Concrete: 500 -700 sq ft per kit.

Second Coat – Over Existing Coating: 625 – 875 sq ft per kit

Coverage variations depend on concrete surface porosity, texture and amount of material applied. Excessive build up should be avoided.

Surface Preparation

- Concrete must be structurally sound, clean, dry, and cured 28 days.
- Recommended mechanical prep: shot blasting or diamond grinding (30 grit or coarser) for CSP-2 to CSP-3.
- For thin-mil systems (acid stain, dye & seal, 2 or fewer clear coats): 80 grit may be acceptable.
- Vacuum thoroughly.
- For existing coatings outside re-coat window: sand with 60–120 grit until dulled.
- Rinse and dry completely.
- Optional: wipe with acetone (extremely flammable—follow all safety precautions).

Acid Etching (only for bare, unsealed concrete)

- Use 4:1 water:muriatic acid.
- Keep surface wet 10–15 minutes.
- Remove solution, rinse thoroughly, neutralize final rinse.
- Allow 24–72 hours drying time.

Temperature Requirements

Substrate, air, and material must be 50°F–80°F. Higher temps/humidity speed cure; lower temps slow cure.

Mixing

- Mix Part A and Part B separately before combining.
- Blend 4 parts A to 1 part B for 2–3 minutes.
- Avoid vortexing (introduces air/moisture).
- Do not thin.

Application

- Use brush or 3/8" nap shedless roller (18" recommended).
- Apply in 4'x4' sections, roll corner-to-corner, then back-roll.
- Maintain wet edge.
- Do not puddle.
- Remove excess in joints with brush.
- Airless or HVLP sprayer may be used.

Re-Coating

- Re-coat within 6–12 hour window when possible.
- High temps/humidity shorten re-coat window.
- If beyond 24 hours: sand with 60–120 grit, rinse, dry, optional acetone wipe.

Important Notes

- Applying outside parameters may cause failure.
- Test in inconspicuous area.
- Too thin = poor film formation.
- Too thick = bubbles/hazing.
- DO NOT USE ON BRICK.

Thinning

Do not thin.

COF Warning

ADA requires coefficient of friction:

- .6 on level surfaces
- .8 on ramps

Slip-resistant aggregate recommended for wet/oily/greasy conditions.

PRECAUTIONS & LIMITATIONS

- Product will freeze; store above 40°F.
- Block HVAC ducts to prevent fume distribution.
- Use proper ventilation during and after application.
- Do not apply over carpet, tile, or floor adhesives.
- Best performance with 1–2 medium-light coats.
- Slippery when wet—add anti-slip additive if needed.
- New concrete must cure 28 days.
- Do not thin.
- May darken concrete—test first.
- Clean-up: MEK or acetone.
- Removal: commercial stripper or mechanical grinding/sandblasting.
- Shelf life: up to 1 year unopened at room temperature.

Physical Properties

Extended Technical Data

- Pot Life: 45 minutes
- Abrasion Resistance (ASTM 4060-81): 38–40 mg loss
- Flexibility (1/8" Mandrel, ASTM D1737): Pass
- Pendulum Hardness (ASTM D-4336): 175
- Gloss (60°): 88
- Water Resistance: Excellent
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Chemical Resistance

R = Recommended RC = Recommended Conditional C = Conditional (wash within 1 hour) NR = Not Recommended

- Urine – R
- Xylene – R
- MEK – C
- Isopropyl Alcohol – R
- Methanol – R
- Gasoline – R
- Diesel Fuel – R
- Skydrol – R

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- Motor Oil – R
- Transmission Fluid – R
- Brake Fluid – R
- Hydraulic Fluid – R
- Water – R
- Sugar/Water – R
- Chlorinated Water – R
- Clorox (10%) Water – R
- Vinegar/Water 5% – R
- Wine – R
- Sodium Hydroxide 25% – R
- Muriatic Acid 10% – R
- Sulfuric Acid 10% – R
- Nitric Acid 10% – NR
- Phosphoric Acid 10% – R
- Hydrochloric Acid 20% – R

Full cure for maximum chemical/abrasion resistance: 7–14 days

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.

Safety

Do not breathe vapors. When using in confined or limited ventilation areas, use appropriate respirator to protect against breathing 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.

Warranty– This warranty is made in lieu of all other warranties, either expressed or implied. Before application the User shall determine the suitability of the product for his/her intended use and User assumes all risks and liabilities whatsoever in connection therewith. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The Manufacturer and/or Seller warrants that if any goods supplied prove defective in material the sole obligation shall be to replace said product. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither Manufacturer nor Seller shall assume any liability for injury, loss, or damage resulting from use of this product.

Ordering – Contact Engrave-A-Crete at 1-417-924-2300

• www.ConcreteResurrection.com • www.Engrave-A-Crete.com