



INSIDE MATTE URETHANE

56% SOLIDS MATTE FINISH WATER BASED URETHANE

Inside Matte Urethane is a high solids, matte finish, two-component water based aliphatic polyurethane. Inside Matte Urethane has excellent hardness, abrasion resistance, hot tire resistance, chemical resistance. Inside Matte 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.
- Matte 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	56%
Pot Life	45 Minutes
Dry Time - Tack Free	16 - 18 hours
Dry Time - Foot Traffic	20 - 24 hours
Dry Time - Heavy Traffic	4 - 7 days
Re-Coat Time Window	16 - 24 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 100 grams/Liter (Mixed A&B)
Appearance - Dry	Clear and Matte 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

- Many interior applications where a low odor, matte finish, abrasion resistant coating is required.



FOR PROFESSIONAL USE ONLY

ENGRAVE-A-CRETE

CONCRETE RESURRECTION

Technical Data Sheet (TDS) CR-545 INSIDE MATTE 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-545 Inside Matte Urethane is a high solids, matte finish, two component, water-based aliphatic polyurethane. It provides performance properties equal to conventional solvent based urethanes without the associated health and environmental problems. Inside Matte Urethane is a hard, fast curing coating with a matte finish, superior abrasion resistance, hot tire resistance, chemical resistance, low VOC, low odor and is easy to clean. Resistance to yellowing from U.V. light is excellent. Typical areas of application would include clean rooms, hospitals, concrete counter tops, commercial, retail, and high traffic areas. Inside Matte Urethane is also suitable for aircraft hangars, automotive repair facilities and garage floors. Excellent for both wall and floor coatings.

Coverage

First Coat: Direct to Concrete Coverage: rate is 600 - 900 sq ft per 3 gallon kit.

Second Coat – Over Existing Coating: rate is 750*-1050 sq ft per 3 gallon 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, and dry
- Fully cured for minimum 28 days
- Mechanical prep recommended: 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 diamonds may be acceptable
- Vacuum thoroughly
- For existing coatings outside re-coat window: sand with 60–120 grit, vacuum, rinse, remove excess water, allow to dry
- Optional: wipe with acetone (extremely flammable — follow all safety precautions)

Temperature limits: 50°F–80°F for substrate, air, and material.

Tinting

Use as clear topcoat only. Tinting not recommended.

Mixing Instructions

- Mix Part A and Part B separately before combining
- Blend 2 Parts A : 1 Part B for 2–3 minutes
- Up to 10% clean water may be added after blending
- Avoid vortexing (introduces air/moisture)
- Do not mix more than can be applied within pot life

Application Tools

18" roller with shedless 3/8" nap roller

Application

- Use brush and/or 3/8" shedless roller (18" recommended)
- Apply in 4'x4' sections, spreading then back-rolling

- Maintain wet edge
- Avoid puddling
- Use brush in joints
- Airless or HVLP sprayer may be used
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Re-Coating

- Re-coat within 16–24 hours when possible
- Higher temps/humidity shorten re-coat window
- If outside window: sand with 60–120 grit, vacuum, rinse, dry, optional acetone wipe

Important Notes

- Applying outside parameters may cause failure
- Test substrate first
- Too thin = inadequate film formation
- Too thick = bubbling/hazing
- Do not use on brick

COF Warning

ADA requires coefficient of friction:

- 0.6 on level surfaces
- 0.8 on ramps

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

Thinning

Do not thin.

Clean Up

Use MEK or acetone.

Storage and Shelf Life

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

Limitations

- All new concrete must be cured for at least 28 days prior to application.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- CR-545 Inside Matte Urethane should be applied in thin coats. Do Not Puddle.
- Be aware that this product may be slippery when wet. Anti Slip additives can be used to reduce surface slip hazards.
- CR-545 Inside Matte Urethane may darken the surface of many new and existing concrete substrates. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.
- Previously coated surfaces must be mechanically cleaned and abraded using a floor machine (buffer) with 80 mesh sanding screen prior to application.
- Do not apply material if the humidity is over 90% and ventilation is poor. Improper cure will result.
- Air and substrate temperatures must be minimum 55°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 bare, 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.

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.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have standards for slip-resistance on pedestrian surfaces. The coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. We recommend the use of slip-resistant additives in all sealers or coatings that may be exposed to wet, oily or greasy conditions. It is the installer and end users' responsibility to provide a flooring system that meets current safety standards.

Engrave-A-Crete, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

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 1-800-884-2114

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