

# CRU TOPCOAT

## TECHNICAL DATA SHEET



SKU:

RESINWERKS CHEMICAL RESISTANT URETHANE (CRU) IS A HIGH PERFORMANCE POLYESTER FORTIFIED URETHANE DESIGNED FOR INDUSTRIAL APPLICATIONS. CRU provides maximum long-term resistance against damage and discoloration from harsh chemicals in both liquid and gas form. It provides superior UV protection and gloss retention, making it an excellent top-coat option for all types of applications.

### USES:

- » Industrial floors
- » Secondary Containment
- » Floors experiencing heavy chemical attack
- » Floors receiving harsh chemical or enzymatic cleaners

### ADVANTAGES:

- » Skydrol resistant
- » High Chemical resistance
- » High abrasion resistance
- » Non-yellowing

### PACKAGING & SHELF-LIFE

CRU is available in the following kits:

- » 2-gallon kits (1-gallon part A and 1-gallon part B)
- » 10-gallon kits (5-gallon part A and 5-gallon part B)

**Shelf-Life::**

- » 24 months factory sealed and stored at room temperature.

### SUGGESTED APPLICATION:

- » Apply at thickness of 3-5 mils dry as a topcoat over resinous flooring systems requiring additional chemical and stain resistance.
- » For pigmented coatings, post-add Resinwerks Urethane Pigments at 1-pint per gallon (1 qt for 2-gallon kit)

### ANCILLARY PRODUCTS:

- » Resinwerks Urethane Pigments; May be used as a top-coat in conjunction with any Resinwerks coating system

### MATERIAL COVERAGE

WET FILM THICKNESS	DRY FILM THICKNESS	APPROXIMATE COVERAGE
5.7 mils wft	3 mils dft	284 ft <sup>2</sup> / gallon (7.0m <sup>2</sup> /L)
7.5 mils wft	4 mils dft	213 ft <sup>2</sup> / gallon (5.2m <sup>2</sup> /L)
9.4-mils wft	5 mils dft	170 ft <sup>2</sup> / gallon (4.2m <sup>2</sup> /L)

### GENERAL PRODUCT INFORMATION

**Colors:** Clear or Pigmented

**Solids Volume:** 53%

**V.O.C.:** Clear: 262 g/l

Pigmented: 272 g/l

**Pot-life:** 40 Minutes @ 72° F

**Mix-Ratio:** 1-Part A to 1-Part B by volume.

**Cure Schedule:** 72° F @ 50% R.H.

To touch: 4-6-Hours

To re-coat: 6-Hours Minimum  
24-Hours Maximum

Foot Traffic: 8-10-Hours

Heavy Traffic: 24-Hours

**Clean-up:** Acetone / MEK

**Application Temp:** 50°F(10°C) - 90°F(32.2°C)

**Environment:** For Interior Use Only

### GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTM D-2240 Shore D	80
Taber Abrasion	ASTM-D-4060	32 mg loss
Tensile Strength	ASTM C-307	3,200 psi
Flammability	ASTM D 635	Self extinguishing
Impact Resistance	ASTM D 2794	140lb
Flexibility 1/4" cylindrical mandrel	ASTMD 522	Pass
Adhesion	ASTMD-4541	500+ PSI concrete fracture
Coefficient of Friction	ASTM D-2047	> 0.6 / pass

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### SURFACE PREPARATION

Chemical Resistant Urethane (CRU) is intended for use as a topcoat and is not designed for direct to concrete applications. When applying CRU on top of existing coatings or seeded aggregate surfaces, ensure that the previous layer to be coated is clean, dry and free of any dust or contaminants. For applications over existing smooth surfaces, the area to be coated should be to be sanded and tacked (solvent wiped) prior to application to allow for proper inter-coat adhesion.

### MOISTURE IN CONCRETE

CRU is not intended for use as a primer. For more information regarding moisture in concrete please contact your local Resinwerks representative.

### DE-GREASING OF CONTAMINATED SUBSTRATES

CRU should not be applied over contaminated surfaces. For previously contaminated surfaces, areas to be coated should be heavy sanded or ground. All dust and remaining contaminants should be completely removed prior to coating.

### TREATMENT OF JOINTS & CRACKS

Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please contact your Resinwerks technical services representative.

### MIXING INSTRUCTIONS:

- » Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 50°F(10°C) or above 90°F(32.2°C)
- » Thoroughly agitate both part A and Part B separately prior to mixing. Mix 1-part A to 1-Part B by volume for two minutes using a slow speed jiffy mixer.
- » For pigmented coatings, post-add Resinwerks Urethane at a rate of 1 Qt (2 pints) per 3-gallon kit

### APPLICATION INSTRUCTIONS

- » Immediately following mixing, pour onto substrate in a uniform ribbon and spread evenly with a squeegee or pan roll with 1/4" - 3/8" nap roller depending on desired thickness. Immediately back-roll with 3/8" (9 mm) nap non-shedding roller to help ensure full coverage and uniform thickness. Use a brush or small roller to cut-in along perimeter walls or any other obstructions. Depending on ambient environmental and slab temperatures, material will be dry to the touch and ready for subsequent coats within approximately 4-6 hours following application. Contact Resinwerks directly for additional application specifics and recommendations.

### LIMITATIONS

- » Do not apply over concrete experiencing ASR
- » Do not apply over Acrylics or MMA Coatings
- » Do not apply over existing coatings / sealers that have not been properly abraded and cleaned.
- » DO not apply to new slabs < 28-days old
- » Do not apply over areas wiped with denatured alcohols
- » Do not apply to concrete < 3500 PSI compression strength
- » Do not apply product when ambient or room temperature is below 50°F (10°C) or over 90°F(32.2°C) or if the relative ambient humidity is above 85%.
- » This product is not recommended for immersion service.
- » DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.

### MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

### NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Urethane products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

### TECHNICAL ASSISTANCE

PHONE: 720-484-5160

WEB: [www.resinwerks.com](http://www.resinwerks.com)