

RT - CRU/UVR Pigmented Chemical Resistant Urethane

DESCRIPTION

Resintek Systems CRU polyurethane is a two component, high solids, aliphatic polyurethane coating. Offering a combination of unique performance properties, Resintek Systems Polyurethane produces a high-gloss protective film which is very hard, flexible and impact resistant. Resintek Systems Polyurethane features excellent resistance to abrasion and scratching. Resintek Systems Polyurethane exhibits durability in exterior applications, an easily cleaned surface, and excellent resistance to a broad range of chemicals. This product is formulated with an integral UV additive for excellent performance in sunlight and strong artificial light. A curing accelerator is available when rapid project turnaround is desired (required for Satin finish).

Resintek Systems Polyurethane is designed as a high-performance topcoat for protective coating and seamless flooring applications. It provides maximum cleanability and stain resistance when used as a finish coat in color chip flooring or epoxy-quartz flooring. Available in optional Satin finish.

ADVANTAGES

- Resistant to fuels and many chemicals
- Hard, high-gloss, easily cleaned surface
- Graffiti resistant when used as wall surface

TYPICAL USES

- Finish for color quartz and vinyl mosaic flake systems
- Automotive facilities
- Aircraft Hangars
- Clean Rooms

COLORS

Factory Supplied 10 Standard Colors.
Satin only available in Clear

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear	185 g/l
VOC Pigmented	197 g/l
Solids Content, by Volume, Pigmented	62%
Solids Content, by Volume, Clear	60%
Gloss (60 degrees) ASTM D523 - 14	90 - 95
Satin finish	50-60
Hardness ASTM D4366 (Konig)	122
Tabor Abrasion (100 gm. load 100 cycles, CS 17 wheel)	38 mg Loss
Flexibility ASTM D222	Passes 1/8-inch
Impact Resistance ASTM D2794	Passes 120 inch-pound direct and reverse
Re-coat Final Flooring Application	~5 - 6 Hours
Dry Times (77°F)	
Dry To Touch	~4 - 6 Hours
Recoat	~10 - 12 Hours
Light Traffic	~24 Hours
Full Traffic	~7 Days

Higher temperatures will shorten cure time. Lower temperatures will increase cure time.

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MIXING

Mix only that amount of material that can be used in a 2 hour period at 77°F. Higher temperatures and the addition of accelerator will reduce work time. In hot weather, mix smaller batches. If using the pigmented system, thoroughly premix part A before adding part B. Mixing ratio is 2 parts A to 1 part B. For Satin version, Premix Parts A & B with separate mixing paddles to ensure no cross contamination. Proportion the amounts carefully and mix for two full minutes using a slow speed drill, scraping the bottom and sides of the mixing container. It is important to NOT whip air into the material while mixing. Material cannot be properly mixed by hand. Reseal partially used containers completely after use. Avoid contamination with moisture. B component will react with moisture.

APPLICATION

Resintek Systems Polyurethane may be applied by brush or roller. Apply at 250-350 sq. ft. per gallon with quality 3/8- or 1/4-inch nap solvent resistant core roller as a finish coat over primed concrete. If using the satin version of this material, it is very important to achieve a uniform application rate of 300 - 350 sq. ft. per gallon. Heavier films will be glossier, thinner applications will be flatter.

SURFACE PREPARATION

Concrete must be cured for at least 30 days, have a minimum compressive strength of 3000 psi, be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be properly prepared to achieve a surface minimum texture of ICRI/CSP 3 - 4. Refer to ICRI Technical Guidelines 310- 330 Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. Acid etching is not recommended and will void Manufacturer's warranty. Carefully follow the guidelines listed in the Resintek Systems published application instructions available at www.ResintekSystems.com. Vacuum the prepared concrete surface to remove all dust. Previously coated surfaces that are soundly adhered must be mechanically cleaned and abraded to achieve uniformly gloss-free, open texture.

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PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L) or 15 gallon (56.8 L) total volume mixed units. Use only as complete mixed unit, do not break down into partial mixes. Mix ratio 2A : 1B.

CONCRETE MOISTURE

It is the applicators responsibility to Test for concrete moisture in accordance with ASTM F2170-19. If moisture is indicated to be in excess of 85%, apply Resintek Systems MVB in accordance with the published technical data sheet. Consult with Resintek Systems Technical Service for further information.

SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources. Store between 50°F and 85°F (10°C – 30°C). Do not allow to freeze. Frozen material is unusable and must be properly disposed of.

HANDLING & SAFETY

Material is combustible. Extinguish all flames, pilot lights, and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation and appropriate cartridge-type respirator as application conditions require. Avoid contact with skin; wear protective gloves. Application personal must read and fully understand product Safety Data Sheet before using. Resintek Systems Safety Data Sheets are available at www.resinteksystems.com

LIMITATIONS

- Use only on primed substrates. Do not apply directly to concrete.
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5°F over dew point.
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.
- Work life is considerably shortened over 90 degrees F.
- Do not apply material if the humidity is over 80% and/or poor ventilation/limited air changes. Improper cure will result.