

DESCRIPTION

RTE-HTU is a clear or pigmented high-solids, 100% aliphatic urethane topcoat formulated to provide extreme chemical resistance and durability. RTE-HTU will protect concrete and epoxy floors from harsh chemicals like Skydrol and jet fuels along with heavy-industrial traffic loads from forklifts and other types of vehicle traffic. RTE-HTU is extremely glossy but with the use of the recommended Part C, a satin/semi-gloss appearance will be achieved.

Resintek Systems grind-and-seal programs are simple, costeffective, and minimize ongoing floor maintenance requirements. One thin coat of RTE-HTU over a primed surface will provide extreme durability and protection without any buffing or frequent recoating. The Resintek Systems Grind, Clear Prime & Seal system is an excellent alternative to diamond grinding and polishing. This system will enhance the beauty of raw concrete, provide extreme chemical and abrasion resistance, and eliminate ongoing maintenance procedures. The RTE-HTU Color Prime & Seal system utilizes Resintek Systems Color RTE-HTU pigment packs to produce a solid-colored floor with extreme protection. Finally, use RTE-HTU to topcoat Chip, Quartz, and Metallic systems to achieve chemical and abrasion resistance and a uniform, high-traction, semi-gloss sheen.

COVERAGE RATES

1.5 & 1.25 Gallon Kit: 650-750 sf Demo Kit: 50-75 sf

SHELF LIFE

2 years (unopened and stored at 59-77°F / 15-25°C)

RECOMMENDED USES

Industrial: Manufacturing, Production, Warehousing Transit: Airports, Hangars, Bus/Train Stations Commercial: Retail, Restaurants, Showrooms Entertainment: Arenas, Convention Centers, Gaming Residential: Garages, Decorative, Covered Patios Government: Military Bases, Stations, Prisons

BENEFITS

• Clear or Pigmented w/ Resintek Systems RTE-HTU Pigments

- Excellent scratch and abrasion resistance
- Low Odor and Low VOC (50-state compliant)
- User-friendly and long working time
- Non-yellowing, UV stable 100% aliphatic urethane
- Extreme chemical, tire, and stain resistance
- NO diamond pads and NO burnishing to maintain

PACKAGING

1.25 Gallon Kit:

Part A (1 gal can) + Part B (1 qt can)

Optional – Resintek Systems HTU Pigment

Optional - Resintek Systems Aggregate #120:1 pt

Optional – Resintek Systems Aggregate #60: broadcast 16 fl oz 1.5 Gallon Kit:

Part A (1 gal can) + Part B (1 qt can) + Part C (1 qt can)

Optional - Resintek Systems HTU Pigment

Optional - Resintek Systems Aggregate #120:1 pt

Optional – Resintek Systems Aggregate #60: broadcast 16 fl oz Demo Kit:

Part A (1 qt can) + Part B (1/2 pt can) + Part C (1/2 pt bag)

Optional – Resintek Systems HTU Pigment: measure 2 fl oz

Optional – Resintek Systems Aggregate #120: measure 1.5 fl oz

Optional – Resintek Systems Aggregate #60: broadcast 1.5 fl oz

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833-693-7699



CHEMICAL RESISTANCE	1 HR	24 HR	7 Day
Quaternary Cleaner	1	1	1
Bleach	1	1	1
Vinegar	1	1	1
Mustard	1	1	1
30% hydrochloric acid (Muriatic)	1	2G	2G
37% sulfuric acid (Battery acid)	1	2G	3G
Xylene	1	1	1
Methylene Chloride	3	4	4
Methyl Ethyl Ketone	1	1	1
Betadine surgical prep sol.	1	1	1
Brake fluid	1	1	1
SAE 30 motor oil	1	1	1
Skydrol 500 B	1	1	1
Car tires @ 130°	1	1	1

1=No Effect, 2=Mild, 3=Moderate, 4=Severe, G=Gloss Reduction, S=Stain

TEOLINICAL DATA

Solids content	91%	ASTM D2369
Solids content with Part C	94%	ASTM D2369
Odor	Mild	
VOC Content	2 g/l	ASTM D7768-12
Gloss (no part C)	85-88	ASTM D523
Gloss (with part C)	50-60	ASTM D523
Mixed viscosity	350-450 cps ASTM 2196	
Pot life (once mixed)	75 min	
Working time – Clear / Pigmented	30min / 20min	
Re-coat window	24 hours	
Dry times @ 70°F, 50% RH		
- Dust/Tack free	6 hours	
- Light Foot Traffic	8 hours	
- Heavy Foot Traffic	16 hours	
- Wheeled Traffic	72 hours	
- Full Cure	7 days	
Taber Abrasion (CS-17 wheel, 1000 cycles)	17 mg loss	ASTM D4060
Pencil Hardness	5H	ASTM D3363
Pencil Hardness with Part C	6H	ASTM D3363
Tensile Strength with Part C	1140	ASTM D2370
Elongation with Part C	16%	ASTM D2370
Wet DCOF	0.45	ANSI B101.3
Wet DCOF with Part C	0.55	ANSI B101.3
Wet DCOF with Part C & #120	0.61	ANSI B101.3

ENVIRONMENTAL TESTING

Moisture Content: All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride testing (ASTM F1869) or plastic sheet testing (ASTM D4263) and relative humidity probe testing (ASTM F2170) to determine if excessive levels of moisture vapor emissions are present before applying any coatings. Slabs on grade must have a moisture vapor emission rate of less than 3 pounds / 1,000 sf / 24 hours when measured by calcium chloride test and less than 75% relative humidity when measured using in

situ probes. Test the air temperature, relative humidity, and floor temperature in the area to be finished using a Psychrometer and Infrared Thermometer.

Air Temperature: Resintek Systems HTU must not be applied when the air temperature is above 90°F or below 55°F.

Relative Humidity (RH): Resintek Systems HTU dry time is lengthened (slower) in low humidity and/or cool temperatures and shortened (faster) in high humidity and/or warmer environments. Resintek Systems HTU must not be applied when the RH is above 80%. RH levels below 20% may dramatically lengthen dry times. **Floor Temperature and Dew Point:** Resintek Systems HTU must not be applied when the substrate (floor) temperature is less than 5° above the dew point. Monitoring the substrate temperature, indoor temperature, and RH, and utilizing fans and/or dehumidifiers as needed will help correct or prevent existing or possible dew point conditions until the installation is complete.

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FLOOR PREPARATION

Concrete must be lightly shot-blasted or diamond ground with 30-80 grit metal bond diamonds to achieve a minimum of CSP 2 - CSP 3 concrete surface profile. Concrete must be cured prior to coating (poured and aged at a material temp of at least 75°F for at least 30 days), structurally sound, and free of contaminants including but not limited to waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and any surface laitance (a layer of weak and nondurable material). If prepared concrete is suspected to be contaminated with any of these materials, test for their presence by spraying a thin coat of water onto the concrete. If water beads on the surface. contamination is likely present and the concrete should be scrubbed with a degreaser or mild detergent, rinsed with clean water, and allowed to thoroughly dry prior to coating. Priming:

Resintek Systems recommends priming concrete before coating with Resintek Systems HTU. Resintek Systems HTU should be applied over a surface that has been primed/coated with one of the following products: Resintek Systems Epoxy, Polyasaprtic, or Epoxy Primer. See appropriate product TDS or SOP for preparation and environmental testing prior to proceeding with the primer coat. If no primer is applied, Resintek Systems HTU may soak completely into the concrete, thus requiring an additional application of Resintek Systems HTU. If pigmenting with a light-color or if a "hangar" type of system is being installed, a body coat is recommended using Resintek Systems UV epoxy or Polyasaprtic and Resintek systems Pigments. If defects are present in the primer (debris, fisheyes, bubbles, roller lint), lightly sand the surface with a 100-150 grit screen and clean the floor. It is recommended to apply the body coat at 510 mils. If defects are present in the body coat once it has dried (debris, fisheyes, bubbles, roller lint), lightly sand again with a 100-150 grit screen and clean the floor. Patch / repair any additional defects prior to applying the Resintek Systems HTU topcoat.

If recoating an existing coat of Resintek Systems

HTU, flood mop the coated floor with clean water. A small amount of neutral cleaner may be added to the water for heavily soiled areas. While wet, slowly scrub the floor with a slow-speed scrubber or roto and 60 grit sand screens or a recommended 50-grit Polymer Tool. Move at a rate of no more than 1,000 sf per hour, flipping and replacing screens frequently as they will wear down rapidly. Squeegee and wet-vacuum slurry. Flood mop the floor with a maroon conditioning pad under a separate clean pad at a rate of 1,000 sf per hour. Flip maroon pads at least every 200 sf and discard after 400 sf.

Resintek Systems and its distributors or representatives will not be responsible for coating failures due to improper preparation processes, undetected moisture vapor emissions, or other unacceptable environmental conditions.

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MIXING INSTRUCTIONS

Ensure that all components are at room temperature (59-77°F, 15-25°C) prior to mixing. Never mix partials. Mix the entire kit at one time. Wear gloves and safety glasses when mixing.

1.25 Gallon Kit

- 1) Open Part A and mix for 30 seconds.
- 2) Pour Part A into a clean mixing bucket (2-gallon or larger).

3) If pigmenting: Add Resintek Systems pigment and mix for 1 minute or until uniform in color.

- 4) Add 1 quart Part B to Part A.
- 5) Optional / recommended: Add 8 oz. xylene

1.5 Gallon Kit

1) Open Part A and mix for 30 seconds.

- 2) Pour Part A into a clean mixing bucket (2-gallon or larger).
- 3) If pigmenting: Add Resintek Systems pigment and mix for 1 minute or until uniform in color.
- 4) Add 1 quart Part B to Part A.
- 5) Slowly add Part C while mixing for 3 minutes. (For additional traction, add Aggregate #120 and Part C)

Demo Kit

1) Open Part A and mix for 30 seconds.

2) If pigmenting: Add 2 oz. Resintek Systems HTU pigment and mix for 1 minute or until uniform in color. 3) Add Part B to Part A. 4) Slowly add Part C while mixing for 3 minutes. (For additional traction, add 1.5 oz. Aggregate #120 and Part C)

RESINTEK SYSTEMS HTU PIGMENTS



Resintek Systems HTU pigments are the only compatible pigments acceptable for use with Resintek Systems HTU. For additional color options, see Resintek Systems HTU Pigments that are recommended for use with Resintek Systems Epoxy and Polyaspartic and primer and body coats.

Note: Not all colors will achieve 100% hide or opacity in one coat. When white or other light colors are desired, the opacity should be accomplished in the primer or body coats prior to applying Resintek Systems HTU. Contact your Resintek Systems Representative for additional information.

SLIP RESISTANCE

Resintek Systems recommends the use of traction additives in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end users' responsibility to select and provide a flooring system that meets current safety standards. Resintek Systems makes no claims of longevity of SCOF or DCOF results. Resintek Systems and any distributors or representatives will not be responsible for injury incurred in a slip and fall accident.



APPLICATION INSTRUCTIONS

- Attach high quality 3/8" nap rollers on frames.
- Use a plastic (non-metal) 18" frame for pigmented HTU.
- De-lint rollers with tape.
- Pour mixed product into a lined rolling pan.

- Dip a 6.5" by 3/8" nap woven edge roller and proceed to roll a thin coat along walls, ledges, or stairs.

- Use a paint brush for hard-to-reach areas and follow up with rollers.

- Dip and load the 18" by 3/8" nap woven roller into tray.

- First roll from side to side (approximately 8 feet wide).

- Then roll a "W" pattern forward and backward (approx. 4 feet deep).

- Squeeze excess product and "back-roll" the entire floor by gradually lifting (feathering) when overlapping into previously rolled areas to remove any roller or drip marks.

- Spiked shoes are recommended when back-rolling.

- Complete back-rolling of clear Resintek Systems HTU within 30 minutes of initial application.

- Complete back-rolling of pigmented Resintek Systems HTU within 20 minutes of initial application to avoid any color shifting after rolling.

- When dipping the roller into the pan, remix the Resintek Systems HTU in the tray to minimize settling of Part C / Aggregate #120.

- Drill mix any coating remaining in bucket before pouring in pan

- Keep a damp rag or paper towel handy to wipe Ultra HTS that may get on the wall base or permanent fixtures.

- Optional - Broadcast Resintek Systems Aggregate #60 by hand or using a hopper and air compressor at an approximate rate of 16 fl. oz. per 650 sf (1.5 Gallon Kit).

MAINTENANCE INSTRUCTIONS Daily Cleaning

Dust mop or sweep your floor daily to remove loose dirt. Use a damp microfiber mop as needed. A string mop may be used if microfiber mops are not available. Wet the mop head with water and wring mop out thoroughly. Use a "figure eight" motion to clean floor. Rinse and wring mop pad frequently and change the water as it becomes cloudy/ dirty. A light dilution of neutral pH cleaners may be used. Add citric acid to water to aid in the removal of salt residue. Overuse of cleaning products, detergents or dirty water may leave a residual film on the floor. Rinse with plain hot water to remove any film or haze. Use a dry towel or microfiber after the damp process to help remove any film or residual water marks. Caution: Floors can be slippery when wet. Use extreme caution when walking or working on a wet floor.

Auto / Machine Scrubbing

Wet auto scrubbing or machine scrubbing are suggested on an as-needed basis. Use Microfiber Scrub Pads or standard white or red pads. Use of any other pads will void any performance guarantee or warranty. Launder Microfiber Scrub Pads periodically as they will become dirty and will no longer clean effectively. Never dry scrub or buff floors čoated with Resinték Systems HTU. Address areas of wear and affix floor protectors to any furniture or fixture that may prematurely damage the floor. (See Resintek Systems full line of floor protectors) WARRANTY Resintek Systems products are warrantied to be of uniform quality within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied, is made to the effects of such use. The seller and manufacturer's obligations under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. Contact your distributor or representative for more information.

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