RT - Oil Stop Primer
Oil Tolerant Primer

DESCRIPTION
RT-Oil Stop Primer is an epoxy, two-component, low viscosity product designed for use as a primer on concrete substrates that are contaminated with hydrocarbon oils, such as, petroleum products and their derivatives, motor oil, solvents, cutting oils, and hydraulics fluids. Also, the RT- Oil Stop Primer is an effective primer when the concrete surface is contaminated by animal fats or vegetable oils. RT-Oil Stop Primer possesses outstanding adhesion to contaminated concrete surfaces making it ideal for challenging oil and fat contaminated concrete surface applications. RT- Oil Stop Primer is not intended to be used where contamination is from non-hydrocarbon lubricants and oils, such as silicone or lithium oils, pastes, greases, and compounds.

TYPICAL USES
Air Craft Hangars and Maintenance Floors
- Automotive Repair Floors
- Commercial Kitchens Floors
- Food, Beverage and Spirits Processing Floors
- Laboratories and Research Floors
- Manufacturing and Warehouse Floors
- Mechanical Equipment Room Floors
- Meat and Poultry Processing Floors
- Pharmaceutical Floors

Concrete
Concrete must be structurally sound and free of curing agents, coatings, sealers, densifiers, and other bond breakers.

New Concrete:
- Place concrete per ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Floor Materials.
- Water Cement Ratio 0.4 to 0.5, and an approximate 4,000 psi (28 MPa) strength level.
- Requiring a positive side moisture barrier in direct contact with the concrete meeting ASTM E1745 Standard Specification for Plastic Water Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.
- The moisture barrier needs to be placed per ASTM E1643 Standard Practice for Selection, Design, Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs, Class A 15 mils (0.38mm)

USES/BENEFITS
- Complies with USDA, FDA, Food Safety Modernization Act. See Resintek Systems Technical Bulletin: 3 Food and Beverage Compliance.
- Slip Resistance (ADA) See Resintek Systems Technical Bulletin: 4 Coefficient of Friction.
- LEED® and Green Seal® requirements. See Resintek Systems Technical Bulletin: 5 LEED and Green Seal Information.
- VOC and EPA Compliant all states and provinces in North America. Cures to an inert finish. See Resintek Systems Technical Bulletin: 2 VOC Compliance.
- Strong and Tough Floor
- Excellent Chemical and Abrasion Resistance
- Designed for new floors and for resurfacing old floors

Colors
Note: It is NOT recommended to pigment primers.

Coverage Rates
Primer: 100 sq. ft. (14.9 sq. m.) 16 mils (WFT)

LIMITATIONS
This product is best suited for applications in temperatures between 60°F to 90°F (16°C to 32°C). See Resintek Systems Technical Bulletin: 7 Temperature and Relative Humidity Limits.
- Higher temperatures will result in shortened working times and faster drying time.

Contact Us
833-693-7699
www.resinteksystems.com

RT - Oil Stop Primer
Oil Tolerant Primer

Existing Concrete:

If field tests or laboratory analysis reveals inferior concrete flooring slabs containing contaminants from previously applied unreacted silicate materials that will interfere with the bond, use Resintek Systems Water Based Epoxy WBC. **See Resintek Systems technical Bulletin: 20 Selecting a Primer.**

•Contaminants include, but are not limited to organic hydrocarbon materials, calcium chlorides, and aluminum stearates.

• Concrete flooring slab can lose their structural strength over time, caused by conditions beyond the control of the flooring manufacturer or the installation contractor.

• If the concrete substrate deteriorates sufficiently, it will no longer support the bond of the remediation floor system.

Such conditions are detailed in ACI 201.2R "Guide to Durable Concrete" published by the American Concrete Institute. **See Resintek Systems Technical Bulletin: 1 Concrete Surface Preparation.**

CHEMICAL RESISTANCE DATA

See Resintek Systems Technical Bulletin: 9 Chemical Resistance Guidelines and Chart.

CHECK CONCRETE MOISTURE

The concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe). Refer to appropriate Technical Data Sheet limits and Resintek Systems Technical Bulletin: 6 Moisture Mitigation Negative Side Moisture Barrier.

Physical Properties at 77°F (25°C)		
VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)		0 gr./lt.
Standard Viscosity Clear, Mixed Epoxy and Hardener		1200 cps
Percent Solids Clear by Volume		100%
Mix Ratio by Volume		3:2
Pot Life is Reduced by Increases in Mass and/or Temperature		
	Cure Time at 77°F (25°C)	**Cure Time at 50°F (10°C)**
Dry to Touch	8 Hours	18 Hours
Light Traffic	24 Hours	48 Hours
Full Cure	7 Days	14 Days

Mechanical Properties at 77°F (25°C)		
Tensile Strength	ASTM D638	6,230 psi
Tensile Elongation	ASTM D638	11%
Hardness, Shore D	ASTM D2240	75 – 80
Adhesion to Concrete	ASTM D7234	400 psi (concrete failure)
Moisture Vapor Transmission (maximum) *	ASTM F1869	3 lbs.
Concrete Relative Humidity Moisture % (maximum) *	ASTM F2170	75% RH
*If moisture or relative humidity exceeds the limits consult the Crown Polymers representative and refer to Crown Polymers Technical Bulletin: 6 Moisture Mitigation Negative Side Moisture Barrier		

Note: though testing is critical, it is not a guarantee against future problems. This is especially true if there is not a positive side vapor barrier or it is not functioning properly and/or concrete has contamination from oils, chemical spills, densifiers, excessive salts or other bond breakers.

Contact Us
833-693-7699
www.resinteksystems.com

RT - Oil Stop Primer
Oil Tolerant Primer

CHECK TEMPERATURE & HUMIDITY
Floor and material temperature must be at or above the published Technical Data Sheet. Dew Point must be 5°F (3°C) or more below the surface temperature. Do not apply if humidity is at or above 85%. **See Resintek Systems Technical Bulletin: 7 Temperature and Relative Humidity Limits.**

SURFACE PREPARATION
Concrete must be cured 30 days and be clean, dry, and structurally sound. Surface must be shot blasted or diamond ground at transitions, terminations, penetrations, or congested areas where a shot blast equipment cannot be used to achieve an International Concrete Repair Institute Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers Coatings and Polymer Overlays ICRI profile of CSP 3 or greater. If the surface is diamond ground, use 16-24 grit diamonds and vacuum the floor twice to remove concrete dust. Excessive dust in the pores of the concrete can compromise adhesion. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed. **Adhere strictly to guidelines listed in the Resintek Systems Technical Bulletin: 1 Concrete Surface Preparation.**

APPLICATION EQUIPMENT
Depending on system applied: Disposable 3” brush for cutting in, variable low-speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller and frame, stiff bristle brush, and V-notched rubber squeegee.

MIXING
For ease of mixing and placement, the temperature of the “A” and “B” components should be between 70°F to 80°F (21°C to 27°C). Pre-mix the “A” and “B” components to ensure all raw material and pigments are dispersed uniformly. Box pigmented products if using different numbers for uniformity of color. **See Resintek Systems Technical Bulletin: 10 Mixing Guidelines.**

SKID-RESISTANCE
Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3. See Resintek Systems Technical Bulletin: 4 Coefficient of Friction.

Contact Us
833-693-7699
www.resinteksystems.com

RT - Oil Stop Primer
Oil Tolerant Primer

APPLICATION
Oil Stop Primer must be applied by notched squeegee at a rate of 100 square feet (9.3 square meters) per gallon (3.79 liters) and vigorously scrubbed into the surface with a stiff-bristled brush for at least 10 minutes per gallon and leveled with rolled with a 3/8 nap roller to achieve even coverage. After the initial cure check the surface of the Oil Stop Primer for transitory oils or fats that may have migrated to the surface. If transitory oils or fats, bond-breaking surface contaminants are present, clean the surface with soap and water, dry and lightly abrade. Tack wipe the surface with acetone and reapply the Oil Stop Product at 150 square feet (13.9 square meters). Place all steps per Resintek Systems Installation Instruction.

MAINTENANCE
Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong the life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. See Resintek Systems Technical Bulletin: 8 Care and Maintenance.

SHIPPING and STORAGE
Ship and store material between 40°F to 90°F (4°C to 32°C). Store in a dry environment and out of direct sunlight.

SHELF LIFE
Shelf life is 1 year from the date of manufacturer, provide the containers are unopened.

CLEAN-UP
Clean-up mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

DISPOSAL
Dispose of empty packaging and other waste per federal, state, province, and local regulations.

TECHNICAL SUPPORT
For questions, contact a Resintek Systems Representative.
Additional Support Documents are available from Resintek Systems, including brochures, application guidelines, videos and more. Visit ResintekSystems.com or contact Resintek Systems for additional resources.

Contact Us
833-693-7699
www.resinteksystems.com