



## Technical Data Sheet

### RT – Slurry Stone Select

# ResinTek Slurry Stone Select

100% Solids, High Performance Epoxy

## Description

An innovative new type of decorative epoxy flooring. ResinTek Slurry Stone Select combines a sanitary, high performance traffic surface with modern, upscale aesthetics in an economical, quick turnaround system. The innovative formula enables speedier application using less installation steps and man hours when compared to epoxy quartz flooring. Also, the surface allows for virtually unnoticeable repair of minor damage when needed. ResinTek Slurry Stone Select offers cost-effective commercial/institutional flooring with remarkable durability and elegant designer style.

## Uses

Preferably suited for institutional and commercial applications, such as:

- + Aviation, aerospace hangars, terminals
- + Nursing homes, clinics, hospitals
- + Dormitories, schools, universities
- + Museums, public spaces, government buildings
- + Detention and public safety facilities
- + Restaurants, offices, retail stores
- + Life science and pharmaceutical campuses
- + Parking garages
- + Food/beverage processing and preparation plants

## Advantages

- + USDA, EPA, OSHA, ADA Compliant
- + High gloss or satin finish, and choice of slip-resistant aggregate
- + Timesaving, highly economical installation
- + Allows for virtually undetectable repair
- + Radiant decorative appearance
- + Sanitary, monolithic surface allows for easy and effective cleaning
- + Wide range of standard and custom colors
- + Antimicrobial additive available
- + Integral cove base option
- + Self-leveling system can help restore worn concrete and safeguard new slabs

## Application Data

Mix Ratio	2A:1B		
Packaging Resin	3 US gallon kit		
Slurry	36 lbs. Box		
Color	Clear		
Solids Coverage / US GAL	2 Gallons (Part A) to 1 Gallon (Part B) Add 36 lbs. of slurry Will cover 115 sq. feet using a 3/16" notch rake		
Shelf Life	One year, in original unopened factory pails under normal storage conditions		
Substrate temp.	Min 16°C, Max 30°C		
Cure Time			
Working time	40 min	72°F and 55% rel. hum	
Tack Free	5 hours	72°F and 55% rel. hum	
Recoat Time	10-24 hours	72°F and 55% rel. hum	
Dry Through	14 hours	72°F and 55% rel. hum	
Foot Traffic	24 hours	72°F and 55% rel. hum	
Light Traffic	48 hours	72°F and 55% rel. hum	
Hardness, Shore A	ASTM D2240	90	
Hardness Shore D	ASTM D2240	70	
Abrasion (1000 cycles)	ASTM D4060	0.11	gm
Compression	ASTM C2370	14,200	PSI
Elongation	ASTM D412	9	%
Tensile Stress	ASTM C2370	7300	PSI
Viscosity	Clear	Color	
	800 +/-50	900 +/-50	cps
Solids Content	100%		

## Technical Properties



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**Please read Safety Data Sheets before using products.**

#### **DISCLAIMER:**

All statements and suggestions above are based on experience we believe to be reliable. The use or application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk, and liability of a product for an intended use shall be exclusively up to the User.

#### **ResinTek Slurry Stone Select Chemical Resistance Prior to Urethane Topcoat Application**

<b>Reagent</b>	<b>Spot Test Results</b>
Ammonia	1
Citric Acid 10%	1
Sulfuric Acid 25%	1
Sulfuric Acid 10%	1
JP-4 Jet Fuel	2
1-1-1 Trichloroethane	1
Methylene Chloride	5
Tincture of Iodine	1, S
Water	1
Skydrol®	5
Lactic Acid 10%	1
MIBK	5
Acetone Acid 10%	1
Sugar Solution 10%	1
Isopropyl Alcohol	5
Sodium Chloride 20%	1
Acetone	5
Brake Fluid	4
Mineral Spirits	1

Rating Scale: Spot Test, ASTM D1308;

Pencil Hardness Test, ASTM D3363

1 - Excellent. No change in pencil hardness

2 - Very Good. 1 Unit change in pencil hardness

3 - Good. 2 Units change in pencil hardness

4 - Fair. 3 Units change in pencil hardness

5 - Poor. 4 or more Units change in pencil hardness

S - Stains



# ResinTek Slurry Stone Select

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## General

ResinTek Slurry Stone Select is a combination of low viscosity, 100% solids resin and a special slurry filler. They are normally applied at 50 – 100 mil thickness in areas that need more protection than is afforded by thin film coatings. The unique filler package incorporated into these systems creates a high-density flooring that gives exceptional impact and chemical resistance. Systems should be applied to a primed surface to prevent bubbling problems caused by substrate gassing. Surface texture is easily varied from perfectly smooth to aggressively slip - resistant

## Moisture Vapor Emission Testing

All interior concrete floors are subject to possible moisture vapor emission and/or excessive alkalinity that could ultimately cause coating failure. Prior to application, calcium chloride moisture testing should be conducted according to ASTM 1869-04.

## Surface Preparation

Surface preparation is vital to the long-term success of the installation. All surfaces to be coated must be clean, sound, and free of mastics or other contaminants that may interfere with bonding. Moisture vapor emission testing should be done using the calcium chloride test method according to ASTM 1869-04. Concrete must be shot blasted or diamond ground to achieve a 5-10 mil profile. Properly prepared concrete has a surface profile similar to 120 grit sandpaper.

Wherever the flooring system does not abut a vertical surface and around floor drains, a “keyway” must be cut into the floor. Do not feather edge the materials. In making the keyway, use a grinder or small concrete saw to make a cut approximately ¼ inch into the floor. Chisel away the inner shoulder of the concrete at least ¼ inch. The resin system will flow into this recessed area and be protected from edge damage. Wood surfaces must be exterior grade plywood, securely fastened to the subfloor or joists. Wood must be sanded before application.

Large holes, cracks and control joints should be filled with RT – Epoxy Gel. A flexible putty knife or trowel works well for this procedure.

Expansion joints should be marked and filled with RT – Epoxy Gel, then the slurry system should be applied. After 24 hours cure, the joint should be saw cut and refilled with a flexible polyurethane sealant.

## Priming

Apply Slurry Stone Water Based Epoxy Pigmented at 200-250 sq. ft. per gallon using a squeegee and back roll method. Allow the primer coat to cure for 8-12 hours prior to installation of the slurry.

## Application

After the primer has become tack-free, the slurry system may be applied. The following tools and equipment are required for the installation:

1. One-half inch electric drill with jiffy-type mixing blade. A Jiffy paddle mixer is helpful for larger jobs.
2. Notched trowels or squeegees for gauging the amount of material applied, a 3/16” metal rake or larger
3. Five-gallon, one-gallon, and quart containers for measuring and mixing
4. Porcupine-type roller
5. Spiked shoes

Set up a mixing station using a plastic tarp or drop cloth. At this station, locate the resin, slurry filler, all tools and equipment, and cleanup solvent.

The slurry system consists of equal volumes of catalyzed Slurry Stone 100% Solids Epoxy and Slurry Stone Filler. The pre-packaged Slurry Stone Filler gives a flowable, self-leveling mixture.

The mixture is then poured onto the primed surface and spread with a notched trowel or 3/16” metal rake or larger. It is important to spread the material promptly. The ability of the system to flow easily is reduced as the cure of the resin advances.

The thickness of the system will be determined by the size of the notched trowel or rake, and the angle at which it is held. A trowel with 3/16-inch notch leaves 80 mils. Thickness of the floor decreases as the notches wear and if the trowel is held at a closed angle. It is advisable to use a wet film gauge to check thickness as the application proceeds. A batch consisting of 3 gallons of resin and 36 lbs. of filler will cover 115 sq. ft.

After the material has been spread, a mechanic wearing spiked shoes should walk onto the surface and back roll the area with a porcupine roller to remove trowel marks and obtain an even distribution of the material. The porcupine roller is used to release air that has been entrained during the mixing process.

A desirable application feature of the slurry system is being able to place additional material in hollows or low spots as they become evident during the application. The mechanic with spiked shoes walks onto the freshly poured surface and places material in those areas that need additional buildup. After pouring the material, roll as before and the material will blend and level with the previously placed material. This method of application leaves a smooth, glass-like finish. Allow the slurry to cure 8-12 hours prior to applying the topcoat.

## Application of Topcoat

Once the slurry has cured hard, you may need to sand the entire surface to remove any imperfections. Once the sanding is complete and all the dust has been removed from the surface, apply a topcoat of your choice.

