

# KEY #570 POLYSILOXANE HYBRID COATING



## Product Data Sheet

### DESCRIPTION

**KEY #570** is a high solids, low viscosity, clear, polysiloxane hybrid industrial maintenance coating specially formulated for excellent resistance to ultra violet (UV) light exposure combined with long pot life during application and unlimited recoat time. **KEY #570** provides a wear and abrasion resistant finish that better resists the normal ambering of clear epoxy finishes when exposed to UV spectrum light and other intense lighting. **KEY #570** is the ideal final seal coat for **Key Chip Systems, Key Quartz Systems, Key Luster Metallic Systems, Key Epoxy Terrazzo**, decorative concrete toppings, as a UV resistant primer under clear urethane sealers, and numerous other uses.

### KEY ADVANTAGES

- Excellent clarity and greater resistance to UV light ambering vs. UV resistant epoxies
- Unlimited recoat time
- Low odor during application, can be applied in occupied buildings
- High gloss finish
- Chemical resistant
- Isocyanate free
- Meets USDA requirements

### KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Moisture sensitive cure, will vary with relative humidity
- Unlimited recoat time requires the previous coat to be thoroughly cleaned before sealing

### COLOR SELECTION

**KEY #570** is available in Clear only. Clear may be tinted with Key Resin Universal Color Packs (UNVCP), mix ratio is 2 Universal Color Packs per 4 gallon unit for all colors.

**Caution:** Light colors may require two coats for adequate opaqueness—DO NOT add more than 2 color packs per 4 gallon unit. Note: Color pack MUST be added only AFTER first thoroughly mixing Part A and Part B.

### COVERAGE

**KEY #570** when applied at 200-500 ft<sup>2</sup> per gallon yields 2.75-7 dry mils. Coverage rate of >450 ft<sup>2</sup> per gallon may yield a light orange peel texture.

### CURE/DRY TIME\* (Clear, Tinted)

Working Time	30 min @ 75°F, 50% RH
Pot Life	60 min @ 75°F, 50% RH
Dry to Touch	3 hrs @ 75°F, 50% RH
Recoat	Min: 5 hrs @ 75°F, 50% RH Max: Unlimited
Light Foot Traffic	8 hrs @ 75°F, 50% RH
Wheeled Traffic	24 hrs @ 75°F, 50% RH
Full Cure & Max. Resistance	5 Days @ 75°F, 50% RH

\*Note: Application at <50% RH air relative humidity will slow cure time.

### APPLICATION

#### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in **Key Resin Technical Bulletin #1**. Work must be performed by trained or experienced contractors or maintenance personnel. Contact **Key Resin Technical Service** with any questions.

#### MIXING INSTRUCTIONS

Thoroughly mix each component prior to combining. Mix three (3) parts by volume of Part A (Resin) with one (1) part by volume of Part B (Hardener) for three minutes very thoroughly with a low-medium speed electric drill and jiffy mixer. If tinting with Key Universal Color Pack (UNVCP): Add AFTER first mixing part A and B thoroughly. Mix two (2) Universal Color Packs per four (4) mixed gallons A + B.

#### INSTALLATION

**KEY #570** can be poured in ribbons, spread with a squeegee and back-rolled or applied using dip & roll method. Use a medium nap phenolic core roller at a spread rate of 200-500 ft<sup>2</sup> per gallon to achieve 2.75-7 mils dry film thickness. Application at coverage rate of >450 ft<sup>2</sup> per gallon (<3 mils) may yield a light orange peel texture. **Important:** Do not exceed 10 mils or improper cure development may result.

**Note:** When using **KEY #570** as a primer for clear urethane sealers, lightly abrade cured surface of **KEY #570** with a floor conditioning/cleaning pad (e.g. ETC Redwood Floor Machine Pad) to ensure proper adhesion of the urethane sealer. Be careful to not to leave scratch marks or swirl marks that may be visible through the urethane sealer.

For complete installation instructions, contact **Key Resin Technical Service**.

#### CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

### COMPOSITION

Hybrid polysiloxane resin.

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## TECHNICAL DATA

Mixing Ratio	3 Parts A:1 Part B by Volume	
Solids Content	86% Solids by Volume	
Volatile Organic Content (VOC) (EPA Method 24)	<250 g/L Refer to local VOC Rule for Industrial Maintenance Coating Category	
Gloss, 60°	90-100	
Shelf Life	6 Months	
Viscosity @ 75°F	100-200 cps, Mixed	
Abrasion Resistance	ASTM D4060 CS-17 Wheel	45 mgs

## AVAILABILITY

Key Resin materials are available throughout the United States and a number of other countries. Contact the **Key Resin Representative** in your area for details.

## MAINTENANCE

After completing the application of **KEY #570**, the installer should provide the owner with maintenance instructions. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. **KEY #570** is easily cleaned with neutral soaps or detergents. Routine mechanical scrubbing is recommended for all surfaces having a non-skid texture. Waxing is optional. Long periods of heavy traffic may cause wear patterns necessitating a maintenance application of a finish coat.

## TECHNICAL SERVICE

Key Resin Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist you. Telephone 888.943.4532 or visit [www.keyresin.com](http://www.keyresin.com).

## WARRANTY

Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

## CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid - 5%	L
Acetone	L
Ammonia Hydroxide - 38%	R
Betadine	L-1 hr, 4 hr slight stain
Bleach - 10%*	L*
Brake Fluid	L*
Citric Acid - 30%	R
Citric Acid - 40%*	L*
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	L
Hydrochloric Acid - 15%	R
Lactic Acid - 15%	R
Lactic Acid - 50%*	L*
Methyl Ethyl Ketone	L
Nitric Acid - 10%*	L*
Orange Juice	R
Peroxide - 35%*	L*
Phosphoric Acid - 85%	L
Skydrol	R
Sodium Hydroxide - 50%	R
Sulfuric Acid - 50%*	L*
Toluene	L
Urea	R
Vinegar	L
Xylene	R

R - Recommended for splash/spill service with daily cleanup.

L - Limited recommendation for 8 hours or less exposure time, requires more frequent cleanup, occasional spills only.

\*May cause slight stain or discoloration depending on exposure time. Increase in exposure time increases the concentration and reactivity of the reagent.

Refer to Key Resin Chemical Resistance Guide for further information.

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