

KEY #570 EPOXY-POLYSILOXANE COATING

Product Information Sheet



DESCRIPTION

KEY #570 is a high solids, low viscosity, clear epoxy-polysiloxane hybrid 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**, decorative concrete toppings, and numerous other uses.

KEY ADVANTAGES

- Excellent clarity and greater resistance to UV light ambering vs. other UV resistant epoxies
- Unlimited recoat time
- Low odor during application, can be applied in occupied buildings
- High gloss finish
- Chemical resistant, hot tire 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 and certain factory pigmented colors, do not use with Key Standard Epoxy Color Packs, contact **Key Resin Technical Service** for color options.

COVERAGE

KEY #570 when applied at 200-500 ft² per gallon yields 2.75-7 dry mils. Coverage rate of >250 ft² per gallon yields a variable orange peel texture. Contact Key Resin for Orange Peel formulation.

CURE/DRY TIME

| | |
|-----------------------------|---|
| 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 |

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. The **Key Resin Technical Service Department** is available to answer 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 speed electric drill and jiffy mixer.

INSTALLATION

KEY #570 can be poured in ribbons, spread with a squeegee and back-rolled or applied using dip & roll method. Use a 3/16"-3/8" nap phenolic core roller at a spread rate of 200-500 ft² per gallon to achieve 2.75-7 mils dry film thickness. Application at coverage rate of >250 ft² per gallon (<6 mils) yields a variable orange peel texture. Do not exceed 10 mils or improper cure development may result. 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

COMPOSITION

Epoxy resin and polysiloxane.

KEY #570 EPOXY-POLYSILOXANE COATING

Product Information Sheet



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) | 120 g/L | |
| Gloss, 60° | 90-100 | |
| Weight/gal | 9 lbs/gal, Mixed | |
| 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.

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 | 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-24 hrs |
| Orange Juice | R |
| Peroxide - 35% | L |
| Phosphoric Acid - 85% | L |
| Skydrol | R |
| Sodium Hydroxide - 50% | R |
| Sulfuric Acid - 50% | L-24 hrs |
| Toluene | L |
| Urea | R |
| Vinegar | L |
| Xylene | R |

R - Recommended for continuous splash/spill service

L - Limited recommendation, occasional spills

*May cause slight stain or discoloration