

# KEY #452 ACRYLIC-URETHANE SEALER

Product Information Sheet



## DESCRIPTION

**KEY #452** is a two component, clear acrylic-polyurethane coating with excellent gloss retention. It is used as a primer or sealer over a variety of substrates. **KEY #452** cures to a very tough, abrasion resistant film with exceptional exterior durability, chalk resistance, color stability, and long term gloss retention. **KEY #452** is designed for use over concrete, acid stained concrete/toppings, exposed aggregate concrete, brick pavers and various types of decorative concrete.

## KEY ADVANTAGES

- Excellent weathering resistance
- Good chemical and stain resistance
- Excellent gloss and color retention
- Non-chalking and non-yellowing
- Good wear resistance

## KEY CONSIDERATIONS

- Do not use solvent based acrylic as a primer
- Use over properly prepared concrete surfaces
- Applications heavier than 200 ft<sup>2</sup> per gallon may result in solvent entrapment and possible blistering
- Effective moisture vapor barrier needed directly under concrete slab

## COLOR SELECTION

Clear only.

## COMPOSITION

Acrylic aliphatic isocyanate polyurethane.

## COVERAGE

1.5-2.5 dry mils 250-400 ft<sup>2</sup> per gallon

## CURE/DRY TIME

Working Life	4-6 hrs @ 75°F, 50% RH
Recoat	8-48 hrs @ 75°F, 50% RH
Light Foot Traffic Service	16-24 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 to 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 four (4) 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 #452** is typically applied from a paint pan using dip & roll method. Use a 1/4"-3/8" nap phenolic core roller at a spread rate of 250-400 ft<sup>2</sup> per gallon to achieve 1.5-2.5 mils dry film thickness. Thicker application may result in bubbling in the cured film or improper cure development. Keep a wet edge at all times, roll in the same direction. Use with adequate ventilation. Application in a small closed room requires negative air movement to remove solvent fumes and allow for proper curing. **KEY #452** can be sprayed with an airless or conventional unit. 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.

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## TECHNICAL DATA

Mixing Ratio	4 Parts A:1 Part B by Volume
Solids Content	40 ± 2% Solids by Volume
Volatile Organic Content (VOC) (EPA Method 24)	400 g/L

## AVAILABILITY

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

## MAINTENANCE

After completing the application of **KEY #452**, the installer should provide the owner with maintenance instructions. **KEY #452** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

## 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.

