

# KEY #467-HS URETHANE TOPCOAT



## Product Data Sheet

## DESCRIPTION

**KEY #467-HS** is a two component, chemical resistant, ultra high solids, high performance aliphatic polyurethane industrial maintenance coating. **KEY #467-HS** is a VOC compliant industrial maintenance urethane coating that meets all federal and state environmental air quality standards except for SCAQMD counties in CA. The high gloss or satin finish offers excellent abrasion resistance, chemical and stain resistance. **KEY #467-HS** can be used for concrete floors and walls in warehouses, storage facilities, aircraft hangars, animal housing, restrooms, vehicle maintenance facilities, and numerous other applications. Available in clear with optional pigment packs, **KEY #467-HS** can be used as a finish coating option for most **KEY FLOORING SYSTEMS**. Optional HTS component for use in high traffic/high wear applications.

## KEY ADVANTAGES

- Superior abrasion resistance, optional HTS additive available for additional resistance
- Excellent chemical & stain resistance
- Hot tire stain resistance
- Suitable for both exterior & interior applications
- Use for numerous types of flooring applications
- Compliant to VOC Industrial Maintenance Coating rules in all 50 states except for SCAQMD counties in CA
- Low odor for use in occupied areas

## KEY CONSIDERATIONS

- Application over Key #511, #511-PRO, FlowResin Protop 1000, FlowResin Flowcoat SF41, or polyaspartic requires sanding or solvent wipe of the polyaspartic or epoxy
- Do not use **KEY #467-HS** Pigmented as a wall coating, contact **Key Resin** for alternatives
- Recoating requires sanding prior coat with **Key Resin Tomahawk** pads or similar diamond grit pads
- Minimum/Maximum Application Temperature: 50°F/90°F
- Minimum/Maximum Relative Humidity: 30%/80%

## COLOR SELECTION

**KEY #467-HS** is available in Clear (Gloss or Satin). May be tinted with Universal Color Packs (UNVCP) in Key Standard Colors, Urethane Pigment Packs (UPP) in a limited selection of Key Standard Colors, or custom UNVCP colors subject to lab approval and minimum quantities. **Important:** Pigment Packs MUST be added only after first thoroughly mixing Part A and Part B or color will be altered. **Important:** 850 Traffic Yellow and 950 Traffic Red will create a light orange peel texture.

## COVERAGE

**KEY #467-HS** Clear Gloss will yield 2.9-3.2 mils dry film thickness when spread at 450-500 ft<sup>2</sup> per gallon. **KEY #467-HS** Pigmented Gloss will yield 3.0-3.3 mils dry film thickness when spread at 450-500 ft<sup>2</sup> per gallon. Satin coverage rate 550-600+ ft<sup>2</sup> per gallon.

## CURE/DRY TIME

Pot Life (In Mix Pail)	2 hrs @ 75°F
Recoat (Minimum) (Requires Sanding)	8-10 hrs @ 75°F
General Service (Vehicle)	72+ hrs @ 75°F
Light Service (Foot Traffic)	16-24 hrs @75°F
Full Cure & Max. Resistance	5-7 Days

## 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**. Contact **Key Resin Technical Service** with any questions.

### MIXING & INSTALLATION

**Review detailed installation instructions document prior to use.**

**Mixing:** **KEY #467-HS** is mixed four (4) parts by volume Part A with one (1) Part B for three minutes with a low to medium speed drill and jiffy type mixer. If using pigment pack (UNVCP or UPP), add pigment AFTER first mixing Part A and Part B for a minimum of two minutes. After adding pigment, mix for additional one minute.

Pigment Pack mix ratio: UNVCP: One (1) UNVCP per 2.5 mixed gallons Part A and Part B for most colors—White requires two (2) UNVCP's per 2.5 mixed gallons. UPP: One (1) 16 oz. UPP per 1.25 mixed gallons for most colors. White requires two (2) UPP's per 1.25 mixed gallons.

Thinning: May thin material up to 5% with acetone—White requires thinning to improve leveling characteristics.

**Important:** Follow this exact mixing sequence otherwise color will be altered.

**Important:** For most\* colors, mixed material must rest in mix pail for 10-15 minutes before application to obtain proper color development. \*Note: Contact Key Resin Technical Service for specific colors affected.

**Satin Finish:** Requires Part B Satin Formula and Satin Additive. Mix Part A and Satin Part B as outlined above, add pigment pack (if used) and mix one minute, followed with adding typical 1 gallon of Satin Additive per 2.5 mixed gallons Part A and Part B and continue mixing one minute. Coverage rate: 550-600+ ft<sup>2</sup> per gallon.

Cure Time: Higher quantities of Satin Additive will slow cure time.

**Optional HTS Finish:** Add typical quantity of 12-24 (up to maximum 64) volume ounces HTS Additive (WFA-240) per 2.5 mixed gallons of Part A and Part B to improve wear resistance. Remix pail prior to pouring into paint pan to resuspend HTS Additive. Use roller to keep additive suspended in paint pan immediately prior to each application.

**Application:** **KEY #467-HS** is normally applied using a dip and roll procedure with a short/medium nap mohair roller, followed immediately with cross rolling. Care should be taken to minimize the entrapment of air caused by over-rolling. Apply material within the recommended thickness range. **KEY #467-HS** must be aggressively sanded with a diamond grit pad or other suitable method prior to application of a second topcoat. **KEY #467-HS** is a moisture cure urethane, relative humidity will significantly affect cure speed. Refer to Installation Instructions document for important additional details.

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## TECHNICAL DATA

Mixing Ratio	4 Parts A:1 Part B by Volume
Solids Content (by volume)	90% Clear, 93% Pigmented
Volatile Organic Content VOC	<250 g/L Refer to local VOC Rule for Industrial Maintenance Coating Category

## PHYSICAL PROPERTIES

Hardness	ASTM D-3363	2H to 3H
Abrasion Resistance	ASTM D-4060 CS-17 Wheel, 1000 cycles	10-20 mgs
Contact Key Resin for HTS values		

## CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner.

## COMPOSITION

Two, three or four component, chemical resistant, aliphatic polyurethane industrial maintenance coating.

## 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.

## 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.

## MAINTENANCE

After completing the application of **KEY #467-HS**, the installer should provide the owner with maintenance instructions. **KEY #467-HS** is easily cleaned with neutral soaps or detergents. Refer to **Technical Bulletins #3** and **#3-A** for additional information.

## 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
Betadine	R
Beer	R
Bleach - 10%*	L*
Brake Fluid	R
Citric Acid - 30%	R
Citric Acid - 40%	L
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid - 15%	R
Iodine	R
Lactic Acid - 15%	R
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 - 20%	R
Toluene	R
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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