

KEY #468-HS URETHANE SEALER

Product Data Sheet



DESCRIPTION

KEY #468-HS is a two component, chemical resistant, UV light resistant, ultra high solids aliphatic polyurethane high performance coating. **KEY #468-HS** is a low VOC, compliant urethane that meets all federal and state environmental air quality standards. The high gloss finish offers superior abrasion resistance, chemical and stain resistance. **KEY #468-HS** is ideal 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 #468-HS** can be used as a finish coating option for most **Key Resin Systems**. Optional **Key HTS Additive** for use in high traffic/high wear applications.

KEY ADVANTAGES

- Superior abrasion resistance, optional HTS additive available for additional resistance
- Excellent chemical and stain resistance
- Hot tire pickup resistant
- Suitable for both exterior and interior applications
- Use for numerous types of flooring applications
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC and rule 1113 air regulations in all 50 U.S. states

KEY CONSIDERATIONS

- Application over Key #511-PRO, FlowResin Protop 1000 or FlowResin Flowcoat SF41 requires sanding or solvent wipe of the polyaspartic or epoxy
- Minimum/maximum application temperature: 50°F/90°F
- Minimum/maximum relative humidity: 30%/80%
- Do not use **KEY #468-HS** Pigmented as a wall coating, contact **Key Resin** for alternatives
- Recoating requires sanding prior coat with **Key Resin Tomahawk** pads or diamond grinder

COLOR SELECTION

KEY #468-HS is available in Clear (Gloss). May be tinted with Urethane Pigment Packs (UPP) in a limited selection of Key Standard Colors, or custom UPP 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:** Universal Color Packs (UNVCP) in Key Standard Colors may also be used but will create a light orange peel texture.

COVERAGE

KEY #468-HS Clear will yield 4.0-4.8 mils dry film thickness when spread at 300-350 ft² per gallon. Pigmented will yield 4.1-4.9 mils dry film thickness when spread at 300-350 ft² per gallon.

CURE/DRY TIME

Pot Life (In Mix Pail)	2 hrs @ 75°F, 50% RH
Recoat (grinding required)	8-10 hrs @ 75°F, 50% RH
General Service (Vehicle)	72+ hrs @ 75°F, 50% RH
Light Service (Foot Traffic)	16-24 hrs @ 75°F, 50% RH
Full Cure & Max. Resistance	5-7 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. Contact **Key Resin Technical Service** with any questions.

MIXING & INSTALLATION

Review detailed installation instructions document prior to use.

Mixing: **KEY #468-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 (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: 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.

UNVCP: One (1) UNVCP per 1.25 mixed gallons Part A and Part B.

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

Important: Follow this exact mixing sequence of mixing A+B before adding pigment, otherwise color will be altered.

Important if using UNVCP pigment packs: 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.

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 #468-HS** is normally applied using a dip and roll procedure with a short/medium nap mohair roller, followed immediately with thorough cross rolling. Care should be taken to minimize the entrapment of air caused by over-rolling. Apply material within the recommended thickness range. **KEY #468-HS** must be aggressively sanded with a diamond grit pad or other suitable method prior to application of a second topcoat. **KEY #468-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 Part A:1 Part B by Volume
Solids Content (by volume)	90% Clear, 93% Pigmented
Volatile Organic Content (VOC) (EPA Method 24)	<50 g/L Compliant to low VOC Rule 1113 for Floor Coating Category

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 or visit www.keyresin.com.

MAINTENANCE

After completing the application of **KEY #468-HS**, the installer should provide the owner with maintenance instructions. **KEY #468-HS** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

COMPOSITION

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

PHYSICAL PROPERTIES

Hardness	ASTM D3363	2H to 3H
Abrasion Resistance	ASTM D4060 CS-17 Wheel, 1000 cycles	10-20 mgs
Contact Key Resin for HTS values		

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*	L*
Lactic Acid - 15%	R
Methyl Ethyl Ketone	L
Nitric Acid - 10%*	L*
Orange Juice	R
Peroxide - 35%	R
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.

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.

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