

# KEY #200 PROTEUS TILE GROUT-HP

## Product Information Sheet



## DESCRIPTION

**KEY #200** is a highly chemical resistant industrial grade, novolac epoxy grout for ceramic tile, brick pavers, and stone. **KEY #200** is supplied in pre-packaged kits containing resin, hardener, and mineral fillers that produce a dense, uniform seal. Typical applications for **KEY #200** require superior resistant to thermal shock, chemical, and heavy traffic found in harsh environments of dairies, bakeries, meat packers, breweries, canneries, bottlers, distilleries, and pharmaceutical plants.

## KEY ADVANTAGES

- High chemical and temperature resistance
- User friendly packaging
- Low odor for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Exceeds ANSI-A-118.3 specification for chemical resistant, water cleanable epoxy grout
- Available with cold-room hardener
- Low viscosity—good wetting properties
- Versatile—for both setting and grouting all types of tile
- Meets USDA requirements

## KEY CONSIDERATIONS

- Some tiles and pavers can be stained by color pigments in **KEY #200**. Test small area to determine results before grouting entire surface, or consider using Clear resin with color quartz aggregate
- Substrate temperature must be a minimum of 50°F, contact **Key Resin** for Low Temperature Cure
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- Protect from exposure to chemicals and harsh cleaners until fully cured

## COLOR SELECTION

**KEY #200** is available in Clear, Grey, Black, and custom colors with lab approval, longer lead time, and possible increased cost.

## COMPOSITION

100% epoxy-novolac resin and grout fillers.

## CURE/DRY TIME

Working Life	25 mins @ 75°F
Dry to Touch	4 hrs @ 75°F
Light Foot Traffic Service	12-16 hrs @ 75°F
Full Cure & Max. Resistance	5 Days @ 75°F

## APPLICATION

### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring or tile 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. Before grouting, clean joints and the tile surface with a damp sponge to remove dust, dirt, and other contaminants. Do not leave water standing in joints. Do not clean tiles with acid cleaners.

### MIXING INSTRUCTIONS

Empty entire contents of Part A and Part B into a clean mixing pail. With a slow speed drill and jiffy mixer, mix until liquids are completely blended, yields 1 mixed gallon. Add desired quantity of 80-100 mesh filler sand or 50-70 mesh color quartz, typically 20-30 lbs per mixed gallon for grouting joints (depending on width of joint) or 55-60 lbs per mixed gallon for a setting bed mortar. Confirm desired consistency before beginning project.

### INSTALLATION

Pour mixed **KEY #200** onto working area. Following standard epoxy and grouting techniques, apply to surface. Be sure all grouted joints are completely filled. Remove excess grout with grout float. Do not leave excess grout on the face of tiles. 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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## PHYSICAL PROPERTIES

Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	15,000 psi
Flexural Strength	ASTM C580	3,800-4,000 psi
Heat Resistance		190°F Continuous 325°F Intermittent
Tensile Strength	ASTM D-307	2,000-2,500 psi
Water Absorption	24 hours	0.15%
Volatile Organic Content (VOC) (EPA Method 24)	0 g/L, compliant to low VOC Rule 1113 in all 50 states	

## 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 #200**, the installer should provide the owner with maintenance instructions. **KEY #200** 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.

## CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid - 10%	R
Ammonia Hydroxide - 38%	R
Beer	R
Bleach	R
Citric Acid - 30%	R
Citric Acid - 50%	R
Ethyl Alcohol	R
Fatty Acids	R
Formic Acid - 5%	R
Hydrochloric Acid - 37%	R*
Hydrofluoric Acid - 10%	R*
Lactic Acid - 50%	R
Lactic Acid - 85%	R
Methylene Chloride	NR
Nitric Acid - 20%	R*
Oleic Acid - 50%	R
Orange Juice	R
Phosphoric Acid - 80%	R
Sodium Hydroxide - 50%	R
Sulfuric Acid - 50%	R*
Tannic Acid - 50%	R
Tartaric Acid - 50%	R
Toluene	R
Vinegar	R
Xylene	R

R - Recommended for continuous service  
L - Limited recommendation (occasional spills)  
NR - Not Recommended  
\*May cause slight stain or discoloration