



KEY RESIN #521 EPOXY BODYCOAT

DESCRIPTION

KEY RESIN #521 is a 100% solids epoxy basecoat/primer for Key Chip Systems. **KEY RESIN #521** has improved tolerance to damp concrete substrates.

system application. All substrates must be properly prepared as outlined in **KEY RESIN COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractors or maintenance personnel.

KEY ADVANTAGES

- Economical
- Moisture insensitive cure
- Low odor for use in occupied areas

INSTALLATION

Will vary with application method. Consult your **KEY REPRESENTATIVE** for further information.

KEY CONSIDERATIONS

- Minimum application temperature of 50°F.
- Substrate must be free of curing agents and any foreign materials.
- Slight color variation can be expected from batch to batch.
- Should **not** be used as a finish coat.

PHYSICAL PROPERTIES

Color	Key Standard Colors
Weight/gallon	10.50-11.0 mixed
Solids Content	100%
Mix Ratio	4A to 1B by volume
Pot Life	45 minutes @ 70°F
Viscosity	1500 cps, mixed approx.
VOC	0

COMPOSITION

100% solids amine cured Epoxy Resin.

DRY TIME

10-20 mil film	10-14 hrs.
Light Foot Traffic	16 hrs.
Ultimate Cure @ 74°F	5 days
@ 50°F	14 days

AVAILABILITY

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

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion to any successful resinous flooring

CHEMICAL RESISTANCE

REAGENT	RATING	REAGENT	RATING
Acetic Acid-5%	R	Isopropyl Alcohol	R
Ammonium Hydroxide-10%	R	Ketchup	R
Citric Acid-5%	R	Mineral Oil	R
Coca-Cola Syrup	R	Sodium Hydroxide-5%	R
Crude Oil	R	Tri-sodium Phosphate-5%	R
Diesel Fuel	R	Urea-6.6%	R
Ethylene Glycol	R		

R-Recommended for continuous service.

L-Limited recommendation, occasional spills.

PERFORMANCE PROPERTIES

Tensile Strength ASTM-C-307	2,300 psi
Smoke Deposited ASTM E-162	4 mg. max.
Flame Spread ASTM-162	25 max.
Shrinkage ASTM C-531	<0.5%
Thermal Coefficient of Expansion ASTM C-531	17.4 x 10 ⁻⁶ in./in./°F
Adhesion ACI-503R	300 psi (100% concrete failure Type I)
Hardness ASTM-D-2240	75 (Shore D)
Abrasion, Taber CS-17 ASTM-D-4060	0.065 g loss
Resistance to Elevated Temperatures	No slip or flow at required temperatures
Impact Resistance MIL-D-3134J	Withstands 16ft./lbs. no cracking, delamination or chipping.
Indentation MIL-D-3134J	Withstands 2,000 lbs./sq.in. for 30 min. without indentation.
Heat Deflection Temperature ASTM D-648	110°F
Moisture Absorption	<1%
Flexural Strength ASTM-C-580	5,000 psi
Compressive Strength ASTM-C-579, 25 Day Cure	12,000 psi

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.