



DESCRIPTION

KEY EPOCON SL is a 90-125+ mil self-leveling moisture vapor control system utilizing **KEY EPOCOAT** ‘reservoir’ technology, a unique water-based epoxy which allows the contractor to install polymer resin floor systems, epoxy terrazzo, and other moisture sensitive floor coverings on new concrete (5 days old) without fear of moisture entrapment. **KEY EPOCON SL** is typically applied in a two coat application. **KEY EPOCOAT** is the primer/basecoat material used in the **KEY EPOCON SL** system. **KEY EPOCON SL** reduces the potentially adverse effects of moisture migration through and from concrete slabs on, above or below grade. **KEY EPOCON SL** eliminates the potential for osmotic activity to blister or delaminate polymer resin floor systems, epoxy terrazzo, floor coatings, and protects other floor covering materials and adhesives including VCT, sheet vinyl, carpets, wood, laminates, etc.

KEY ADVANTAGES

- Ultimate high performance moisture mitigation system
- Reduces moisture vapor emission rate through concrete
- Eliminates the risk of osmotic blistering
- Meets USGBC LEED criteria for low VOC
- Tolerance to 100% concrete internal relative humidity as tested by RH in situ probe test ASTM F2170
- Resistance to sustained high alkalinity up to pH 14
- Sub-slab vapor retarder is not required
- Moisture testing is not required
- Compatible with most flooring systems
- Suitable for use over lightweight concrete
- Does not support growth of mold
- Easy to install, low odor for use in occupied areas
- Special long-term warranties available when installed by approved contractors—consult with Key Resin for details

TYPICAL USES

- Below polymer resin flooring and epoxy terrazzo
- Below carpet
- Below VCT, LVT, vinyl sheet goods
- Below wood flooring
- Below most moisture-sensitive flooring
- Component of Key Epocon SLT, Key Epocon Quartz, and Key Diamond Chip resin flooring systems
- Numerous other uses—consult with Key Resin for details

PHYSICAL PROPERTIES

Test Name	Method	Value
Color		White, Neutral only—can be tinted with Key UPP tint packs
VOC (Volatile Organic Content)	EPA Method 24	Refer to Individual Product Component Data Sheet
Adhesion to Concrete	ASTM D7234	300-400+ psi (Concrete Failure, varies by concrete strength)
Compressive Strength	ASTM C579	5,500 psi
Flexural Strength	ASTM C580	2,100 psi
Hardness, Shore D	ASTM D2240	50-60
Minimum/Full Cure		16 hours/7 days at 75°F, 50% RH
Flammability	ASTM D635	Self Extinguishing
Alkaline Resistance	ASTM D1308	10% Sodium Hydroxide 50% Sodium Hydroxide 14 day immersion
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158°F

KEY EPOCON SL

Technical Data Sheet



APPLICATION

Concrete surfaces must be in sound condition and properly prepared prior to any **Key Resin Company** flooring system installation. Refer to **Key Resin Technical Bulletin #1** for specific preparation guidelines and required moisture testing. For specific installation details consult **Key Resin's Installation Instructions Guideline**.

MAINTENANCE

KEY EPOCON SL is not a finished floor system and is not subject to continuous maintenance. Surfaces should be protected at all times during installation. Refer to **Key Resin Technical Bulletins #3** and **#3-A** for additional recommendations.

SYSTEM OPTIONS

- Smooth finish or broadcast with silica sand depending on type of subsequent flooring system and intended service

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 Representatives** are available to assist. Telephone **888.943.4532** or visit www.keyresin.com.

AVAILABILITY

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

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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