



# KEY HYDRO-VAPOR RETARDER #301

## DESCRIPTION

**KEY RESIN #301-HVR** is a colorless, odorless, non-toxic, waterborne silicate based liquid designed to permanently seal, harden, and densify concrete and masonry surfaces. **KEY RESIN #301-HVR** will reduce moisture vapor transmission through cured concrete slabs. **KEY RESIN #301-HVR** is ideal for treating concrete surfaces prior to the successful application of **Key Flooring Systems** as well as carpeting, tile, and other non-breathing flooring.

## KEY ADVANTAGES

- Zero Volatile Organic Content (VOC)
- Densifies and hardens surface by reducing porosity and permeability of deteriorated or soft concrete
- Easy to install
- Reduces rate of moisture vapor transmission through concrete

## KEY CONSIDERATIONS

- Protect glass surfaces from contact to prevent etching
- Do not apply when temperature is at or below 35°F
- Additional coats may be required on porous concrete surfaces
- Excess material on surface will prevent bonding of subsequent coats
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials and 5°F above dew point

## 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 COMPANY'S TECHNICAL BULLETIN #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **KEY RESIN COMPANY** service department is pleased to answer any questions.

### INSTALLATION

Installation of **KEY RESIN #301-HVR** is applied with a low pressure sprayer, flooding the surface. Keep entire surface wet with **KEY RESIN #301-HVR** for 30 minutes by brooming excess material onto dry spots or by re-spraying. A second coat is applied after 4-6 hours. For complete installation details, consult the applications instructions for **Key Hydro-Vapor Retarding System** or contact your **Key Representative** or **Key Resin Company's Technical Service**.

### CLEAN UP

Clean skin, tools, and equipment with soap and water. No thinners are required.

## COVERAGE

Coverage for **KEY RESIN #301-HVR** is approximately 160 ft<sup>2</sup> per gallon depending on porosity of concrete substrate.

## TECHNICAL DATA

|  |                       |                                       |
|--|-----------------------|---------------------------------------|
| <b>Water Absorption</b>                  | ASTM C-642            | Decreases Water Absorbtion by 30%     |
| <b>Porosity &amp; Absorption</b>         | ASTM C-642            | Decreases Percent of Voids in Surface |
| <b>Moisture Vapor Transmission (MVT)</b> | ASTM E1907-97         | Decreases MVT by up to 50%            |
| <b>Freeze-Thaw Resistance</b>            | ASTM C66A, ASTM C-490 | Passes Tests                          |

## AVAILABILITY

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

## HANDLING & SAFETY

**KEY RESIN #301-HVR** contains alkaline products and may irritate, dry, or burn the skin and eyes. Wear protective goggles or safety glasses and protective clothing when using these materials. Material Safety Data information must be available and understood by those responsible for installation.

## TECHNICAL SERVICE

**Key Resin Company** and **KRC Associates, Inc.** provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **KEY REPRESENTATIVES** are available to assist you at any time. CALL (888)943-4532.

**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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Key #301-HVR-2