



# Kährs HSA Adhesive

## DESCRIPTION

*Kährs HSA* is a superior, hard-set, high-performance adhesive that is specifically formulated for installation of *Kährs LT Xpression* and *Kährs Zero Tile*. It is also suitable for *Kährs Zero*, *Kährs Quartz*, and vinyl planks and tiles. *Kährs HSA* performs well under rolling loads; resists indentation; and develops a strong, durable, moisture-resistant, and alkali-resistant bond. Its low volatile organic content makes it ideal for use in occupied buildings.

## WHERE TO USE

- Interior institutional (hospitals, schools, universities, libraries, and government buildings).
- Interior commercial (office buildings, hotel rooms/hallways and restaurant dining areas).
- Interior residential (rental apartments, condominiums, and homes).

## LIMITATIONS

- For interior installations only.
- For use on porous substrates only. Do not use to install over nonporous surfaces.
- Do not install over any substrates containing asbestos.
- Do not apply over any adhesive residues including cutback adhesive.
- Do not install in areas with known hydrostatic moisture, osmotic blistering, or alkali silica reaction conditions.
- Do not use when the substrate temperature is below 65°F (18°C) or above 80°F (26°C), or when the ambient relative humidity is less than 25% or greater than 65%. Ambient room temperature should remain between 65°F and 85°F (18°C and 29°C).
- Do not install when the relative humidity (RH) of the concrete slab exceeds 85% (ASTM F2170).
- Do not install when the moisture vapor emission rate (MVER) exceeds 5 lbs. per 1,000 sq. ft. (6.8 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).
- Do not install if the pH of the substrate exceeds 12.0.
- Do not install unless the surface temperature of the substrate is at least 10°F (5°C) above the dew point.

## SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid, and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. If the surface



contains these substances, they must be mechanically removed. Do not use chemical means.

- All surfaces must be level to 3/16" in a 10-foot span (4.8 mm in a 3.0-m span), even, flat and smooth. Fill all holes or cracks using a high moisture rated cement-based self-leveling underlayment or patching compound.

#### **SUITABLE SUBSTRATES**

- Fully cured concrete at least 28 days old and installed according to ASTM F-710 (see "Limitations" section)
- Properly prepared cement terrazzo
- Exterior rated cement-based self-leveling underlayments and patching compounds (per manufacturer recommendations)
- Properly prepared and primed gypsum underlayments that meet the requirements for compressive strength according to ASTM F 2419

#### **SURFACE PREPARATION**

- All substrates must be structurally sound, dry, solid, and stable.
- Subfloor should be porous, allowing for installation into semi-wet adhesive. Perform a water droplet test to ensure absorbency.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. If the surface contains these substances, they must be mechanically removed. Do not use chemical means.

**Note: Choose all appropriate safety equipment before use. Refer to Safety Data Sheet (SDS) for more information.**

#### **APPLICATION**

1. Recommended trowel size is 1/16" x 1/16" x 1/16" V-notch (680-ACT). See below for coverage.
2. Spread the adhesive evenly over the subfloor, keeping the trowel at a 45-degree angle.
3. Determine the flash and working time (see "Application Properties" section). Only apply as much adhesive as can be installed within the working time. Protect the open adhesive from dust and debris, which will inhibit proper bond and decrease tack.
4. Periodically confirm the adhesive transfer to the backing by lifting the flooring material.
5. Once the flooring is installed, roll flooring with the 100 lb. roller across the width and length of the flooring surface.

#### **CLEANUP**

- Promptly clean any adhesive smudges from the flooring material's surface with water while the adhesive is still fresh/wet.



- Clean tools with water while the adhesive is still fresh/ wet. Clean with mineral spirits once dried.

### PROTECTION

- Protect the finished installation from light traffic for at least 24 hours and from heavy traffic for at least 72 hours.
- Climate control conditions must be monitored and kept within recommended limits to ensure the overall performance and long-term success of the installation.

### APPLICATION PROPERTIES (AT 73°F (23°C) AND 50% RELATIVE HUMIDITY)

Flash Time <sup>†</sup>	10 to 20 minutes ( <i>Semi-wet, with some transfer to finger when touched</i> )
Working Time <sup>††</sup>	Approximately 30 minutes

<sup>†</sup> Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

<sup>††</sup> Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

**Note: Flash time and working time vary based on temperature, humidity, substrate porosity, product application, and jobsite conditions.**

### PRODUCT PERFORMANCE PROPERTIES

Laboratory Tests	Results
Percent Solids	40% to 60%
VOC's (Rule #1168 of California's SCAQMD)	<50 g per L
pH	8 to 10
Density	7.5 to 9.2 lbs. per US gal. (0.9 to 1.1 g per mL)
Flash point (ASTM D56)	> 212°F (100°C)

### SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf Life	12 months when stored in original, unopened packaging at 73°F (23°C)
Storage Conditions	Store at 65°F to 80°F (18°C to 26°C)
Polymer Type	Hybrid Acrylic
Consistency	Paste
Color	White



\*Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 48 hours before work begins.

**APPROXIMATE COVERAGE\***

Recommended Trowel	Coverage
1/16" x 1/16" x 1/16" V-Notch Trowel	150 to 200 sq. ft. per U.S. gal.

*\* Trowel dimensions are depth/width/space. Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to site conditions, product application, and setting practices.*

**PACKAGING SIZE**

4 Gallon (15.1 L)

Disclaimer: Users should determine the suitability of this information or product for their own purpose or application. Manufacturer is not responsible for the misuse of this product. This Technical Data sheet and the information conveyed herein supersede all previous versions. 1/21/2022.