Product Datasheet

Premium Accessory - 2-Component Joint Filler

UZIN KR 518

Low odor resin for fast filling of dormant floor joints

DESCRIPTION:

UZIN KR 518 is an ultra-low-viscosity fast-setting resin to fill joints in cracked, spalled concrete and saw cuts prior to the installation of UZIN moisture vapor retarder products, self-leveling compounds or patches. It offers deep penetration properties into concrete, providing high compressive strength. A wide service temperature allows for use in difficult climatic situations.

SUITABLE FOR:

- Interior & exterior use
- Filling dormant floor joints in concrete substrates prior to the application of UZIN preparation products*
- Residential and commercial applications
- Use with radiant floor heating systems

*UZIN KR 518 is not a moisture vapor barrier

FEATURES AND BENEFITS:

- Easy to mix • Allows for fast use
- Ultra-low viscosity • Fills narrow cracks
- Fast-setting • Open to service after 15 minutes
- Low temperature use • Cures below freezing

TECHNICAL DATA:

Compressive strength	6,800 psi (ASTM D 695)
Tensile Strength	6,500 psi (ASTM D 412)
Packaging	Dual-cartridge 20.2 oz. (600 ml)
Storage	min. 12 months
Mixing ratio	1:1
Color	gray (mixed)
Coverage	approx. 24 lin. ft. @ 1/8" width x 1" depth (varies with substrate porosity)
VOC	< 5 g/L
Ideal application temperature	60-77 °F (16–25 °C) at floor level
Working time	1 min*
Working time	1 min* at 70 °F (21 °C) 5 min at 40 °F (4 °C) 10 min at 0 °F (–18 °C)
Ready for foot traffic	10-15 min* at 70 °F (21 °C) 10 min at 40 °F (4 °C) 20 min at 0 °F (–18 °C)
Ready for covering	15 min*
Minimum application temperature	0 °F (– 18 °C)

*At 70 °F (21 °C) and 65 % relative humidity. Cool temperatures delay set time.

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UZIN KR 518

PRODUCT PROPERTIES:

Solvent-free, 100% solids, polyurethane resin. UZIN KR 518 has very low odor during and after application.

SUBSTRATE PREPARATION:

The subfloor must be structurally sound, solid, dry, free from active cracks, clean, and free of all contaminants, including but not limited to dust, grease, oil, paint, wax, curing, and sealing compounds, or cleaning solution residue that would impair adhesion. If necessary, mechanically prepare and clean the surface by grinding, shot blasting, or sanding, and thoroughly vacuum off all loose material and dust following OSHA recommended guidelines. Do not use sweeping compounds. Any weakly bonded or soft surface material, such as loose patching compounds, leveling compounds, floor coverings, or coatings, must be removed. Do not apply this product over any acid-etched or chemically abated adhesive surfaces. Wood substrates must provide a rigid base and be securely fastened without excessive vertical movement. The surface of the wood must be clean and free of oils, grease, wax, dirt, varnish, shellac, and any contaminates that would impair adhesion. If necessary, sand down to bare wood. Do not apply UZIN products directly to fire-retardant or pressure-treated wood surfaces. Please refer to the UZIN Substrate Preparation Guide for additional information.

CAUTION: Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Do not sand, grind, or disturb any surface or adhesive residue that may contain asbestos or lead, as harmful dust may result. Refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings" for instructions.

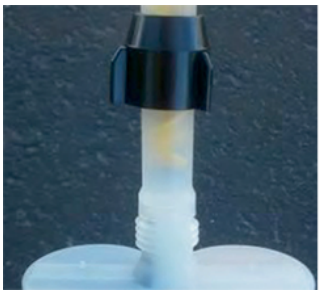
Substrate Moisture Testing and Assessment

Evaluate concrete substrates following ASTM F710 guidelines. Select a suitable UZIN moisture vapor retarder if required. This product is not a moisture vapor retarder and will allow the free passage of moisture vapor diffusion from below.Always reference the limitations of the UZIN products and floor covering. If these limitations are in conflict, the most stringent requirements shall apply.

Apply an adequate number of test areas, including the floor covering and adhesive, to evaluate the bond and suitability of the selected UZIN products for their intended use.

APPLICATION:

1. Prepare all floor joints, cracks or saw cuts in accordance with Substrate Preparation notes, prior to product use. Optimum application conditions are 60 °F–77 °F (16–25 °C). Dew point (not within 5 °F and temperature on the rise) must be observed.
2. Wear protective gloves and glasses when handling product. The recommended tool for application of UZIN KR 518 is a commercial grade dual-cartridge applicator gun. Shake cartridge vigorously for 60 seconds before placing it into applicator gun. Ensure that cartridge and applicator gun are pointed upright. Remove the black color thread cap from the top of cartridge. Remove the dark gray regulator cap and white color sealer cap from top of the cartridge. Insert the dark gray regulator cap to the top of the open cartridge. Attach the static mixing nozzle and screw fit black color thread cap to top of cartridge (be careful not to overtighten to avoid cross-threading). Please note: the mixing nozzle end may be cut for greater extrusion rate (optional). With the cartridge pointing upright, lightly squeeze applicator gun trigger to fill the mixing nozzle and remove air. Failure to keep the cartridge pointing upright during this process will result in poor mixing and may block the cartridge nozzle. Dispense enough material into a waste container until visual uniform mixing of product occurs.
3. During the application of UZIN KR 518, the cartridge nozzle tip must always remain pointed downward. Failure to keep nozzle tip pointed down may result in mixed material re-entering the cartridge resulting in blockage. Position the mixing nozzle of cartridge directly over the floor joint, crack or saw-cut. Dispense cartridge contents by continuous,even trigger pulls of the applicator gun.
4. For installations where UZIN KR 518 is intended to be covered with an UZIN material e.g. moisture vapor mitigation, self-leveling or patching compound, installer must wait 5-7 minutes before broadcasting clean, dry sand to point of refusal over the surface of wet resin. Sand must be a minimum mesh size of # 20 (ASTM U.S. Sieve Number).
5. If UZIN KR 518 is intended to remain uncovered, install product without sand broadcast. Overfill the floor joint, crack or saw cut so that product is slightly higher than the face of substrate. Allow product to set for approx. 3–5 minutes at 70 °F (21 °C). Use a sharp razor scraper to remove excess material from the top surface of substrate.



WARNING: This product can expose you to chemicals including titanium dioxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

DISPOSAL:

Disposal should be in accordance with local, state and federal regulations. Where possible, collect product residues and re-use. Do not allow product to get into drains, watercourses or landfill. Empty packaging is recyclable.

VOC INFORMATION & CERTIFICATION

VOC content: < 5 g/L, compliant with SCAQMD Rule 1168

IMPORTANT NOTES:

- Low temperatures may make application more difficult, decrease coverage rate and strongly influence setting. High temperatures shorten the pot life and setting time.
- Dew point (not within 5 °F and temperature on the rise) must be observed.
- Concrete substrates should be fully cured, surface dry (no standing or pooling water) and free of movement.
- UZIN KR 518 is not a moisture vapor barrier. Select a suitable UZIN moisture vapor retarder.
- Product may discolor from exposure to UV light. Though aesthetic appearance may change, physical product properties are unaffected.
- UZIN KR 518 is not a structural repair product.
- This product is not recommended for use on asphalt substrates.
- The following standards and product regulations apply:
  - • ASTM F710 “Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring”
  - • ASTM F2170 “Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes”

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Precautions: Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at www.uzin.com.