HELMICOL 3031

NOSE CAULKING & FLOORING ADHESIVE

Product Description

HELMICOL 3031 is a two-component solvent-free, epoxy nose caulking adhesive formulated for use with rubber and vinyl stair treads. Helmicol 3031 is designed to fill the void between the nosing of the stair tread and the nosing of the step. HELMICOL 3031 may also be used to permanently install luxury vinyl tile and plank flooring, resilient sheet vinyl flooring, rubber tile flooring and rubber sheet flooring and rubber and vinyl stair treads. Helmicol 3031 has been formulated to produce a superior, hard setting bond required for use in high traffic applications.

Benefits

- ✓ Non-Flammable
- ✓ Solvent-free
- ✓ Excellent moisture and alkali resistance
- ✓ Excellent plasticizer resistance
- ✓ When dry, does not promote growth of mold or mildew
- ✓ Low odor
- ✓ Excellent indentation resistance
- ✓ Sets to a hard setting, permanent bond
- ✓ FloorScore® Certified by SCS Global Services
- ✓ Health Product Declaration

LEED Points Contribution

	LEED Points
MR Credit Regional Materials	Up to 2 points
IEQ Credit 4.1 Low-Emitting Materials Adhesives and Sealants	1 point

Testing Methods

- Freeze-thaw stability (ASTM D7149)
- Shelf Life (ASTM D1337)
- Adhesive Shear Strength (ASTM D6004)
- 90° Peel Resistance (ASTM D6862)
- Plasticizer Resistance (ASTM D7888)
- Caster Chair (ISO 4918)
- Heat Aged Expansion/Contraction

Packaging

- HELMICOL 3031 is available in 13.5-ounce cartridges, 12 cartridges per carton and 1-gallon units.

HELMITIN ADHESIVES
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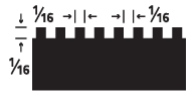
Physical Properties

Weight/Gal:	12.5 lb	
Color:	Grey	
Working Time:	45 - 50 minutes at 75°F. Higher temperatures will result in shorter pot life	
VOC:	<12 grams/liter per SCAQMD Rule 1168	
Mix Ratio: Part A	Part B	
Weight	100	108.3
Volume	1.0	1.0
Freeze/Thaw	Freeze-thaw stable. Allow adhesive to acclimate to room temperature.	
Shelf Life	18 months in unopened container. Stored in dry, climate controled area.	

Coverage

TROWEL	SPACING	COVERAGE
13.5 oz Cartridge	N/A	30 linear ft. x ¼" per cartridge
	1/16" x 1/16" x 1/16" Square Notch	125 - 150 square feet per gallon
	1/16" x 1/16" x 1/16" V-Notch	165 - 200 square feet per gallon
	3/64" x 3/64" x 3/64" U-Notch	165 - 200 square feet per gallon
	1/32" x 1/16" x 1/32" U-notch	225 - 250 square feet per gallon

Note: 3/64" x 3/64" x 3/64" U-notch trowel is available from Helmitin.

*SEE SDS FOR REGULATORY INFORMATION

Stair Tread Application

Cartridge adhesive automatically mixes when pumped through static mixer. The use of the static mixer supplied with the cartridge is required to insure proper mixing of the Part A & B components. Cut the tip of the static mixer to desired width. Apply a sufficient amount of epoxy nose caulking into the inside nose area of the stair tread to completely fill the void between the stair nosing and the nosing of the step. Position stair tread, making sure that the nosing of the stair tread is positioned tightly against the step nosing. **When installing treads from the bottom working up, do not kneel or step of the nosing of the tread as this can cause displacement of the adhesive.** Roll the tread and riser areas with a hand roller. **Do not roll the nosing of the stair tread as this can cause displacement of the adhesive.** Allow minimum 24-hours cure time before allowing foot traffic. Lower temperatures will require longer waiting periods.

Flooring Application

1. HELMICOL 3031 can be used on porous and non-porous surfaces free of moisture. Surface to be covered must be dry, clean and smooth. Any foreign materials present such as paint, grease, oil, pen markings, adhesive residues, etc. that may prevent a proper bond or migrate to the surface causing a stain must be removed. Adhesive can be used on all grades of concrete on, above or below grade in the absence of moisture. Installation of a 10-mil (0.010") or greater effective moisture retarder is recommended directly under all on and below grade concrete floors with its integrity insured. Concrete shall be prepared according to the recommendations outlined in ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring). Concrete floors shall be free from crazing, dusting, spalling and any curing or sealing compounds. Concrete floors shall be tested for moisture according to the latest revision of ASTM F2170 (Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes) and ASTM F1869 (Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. Wood floors must be double construction with a 1" minimum thickness, structurally sound, securely fastened and free from deflection/spring. Top layer of wood shall be underlayment grade plywood. Cracks and uneven surfaces must be filled with an approved cement-based patching compound.
2. Pour the entire contents of the Part B container into the Part A container. Using a low speed mixer, thoroughly mix the contents until a smooth, even colored consistency is achieved. Immediately pour the entire contents onto the substrate. Do not allow mixed adhesive to set in container. Spread adhesive evenly using the recommended trowel. Refer to above chart for trowel notch recommendations. Hold trowel at a 60° angle. Replace trowels with worn notches. Do not re-notch worn notches.
3. Note: The 3/64" x 3/64" x 3/64" U-notch trowel can be used as an alternative to the 1/16" x 1/16" x 1/16" V-notch trowel. Contact Helmitin for more information.
4. Once applied, the working time of the adhesive is 50 - 60 minutes (higher room temperatures will result in shorter open times). To insure transfer of adhesive to back of flooring, flooring material must be positioned while adhesive is wet. Allowing a 10-minute open time before positioning flooring will help reduce tile shifting and adhesive bleed through at tile joints. Kneeling boards are recommended when working on tile. When installing sheet flooring, the use of a push board will help remove excess air under the flooring. Immediately roll flooring in both directions with a 100 lb three-section roller.
5. Prevent all traffic for a minimum of 8-hours. Prevent heavy traffic and rolling loads for a minimum of 24 - 48 hours after installation. Do not wash or begin maintenance procedures on the floor for a minimum of 5-days after installation. Lower temperatures will result in longer cure times.

Clean-up

Remove wet adhesive immediately with a clean cloth dampened with mineral spirits. Cured adhesive is very difficult to remove. Do not apply solvents directly to flooring. **Use caution when handling flammable solvents.**

General Warranty & Precautions

Helmitin warranties its private label adhesive formulations to be free of all manufacturing defects. The warranty period shall be in place for one (1) year from the date of installation and will also be guided by the date of manufacture to insure the integrity of the formulation and that proper storage and shipment of same has taken place. Please contact Helmitin for detailed warranty information. Carefully read and follow all precautions and warnings. Keep out of reach of children. For complete safety information, refer to Safety Data Sheet (SDS) available from Helmitin Inc.

Statements and recommendations made herein are based on tests believed to be reliable. However, no guarantee of their accuracy or completeness is made. Unless otherwise provided in written contract, products are sold without warranties or conditions expressed or implied. Purchasers must make their own tests to determine the suitability of our products for their particular purpose.

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floor score
CERTIFIED BY SCS Global Services

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