



HELMICOL 3041

FAST REACTING EPOXY NOSE CAULKING AND FLOORING ADHESIVE

Product Description

HELMICOL 3041 is a fast reacting two-component solvent-free, epoxy nose caulking adhesive formulated for use with rubber and vinyl stair treads. HELMICOL 3041 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 3041 has been formulated to produce a superior, hard setting bond required for use in high traffic applications. May be used over properly prepared porous and non-porous surfaces such as concrete, underlayment grade plywood, cementitious based patching compounds and levelers.

Benefits

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

LEED Points Contribution

MR Credit Regional Materials
IEQ Credit 4.1 Low-Emitting
Materials Adhesives and Sealants

LEED Points

Up to 2 points
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)



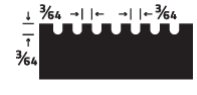

Packaging

- HELMICOL 3041 is available in 13.5-ounce cartridges (12 cartridges per carton) and one-gallon units.

Physical Properties

Weight/Gal:	11.4 lb mixed
Color:	Grey
Working Time:	8 - 10 minutes at 68°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 95
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 controlled area.

Coverage

TROWEL	SPACING	COVERAGE
13.5 oz Cartridge	N/A	30 linear ft. x ¼" per cartridge
	¼" x ¼" x ¼" Square Notch	125 - 150 square feet per gallon
	¼" x ¼" x ¼" V-Notch	165 - 200 square feet per gallon
	¾" x ¾" x ¾" U-Notch	165 - 200 square feet per gallon
	½" x ¼" x ½" U-notch	225 - 250 square feet per gallon

Note: ¾" x ¾" x ¾" U-notch trowel is available from Helmitin.

Acclimation

The area to receive flooring or stair treads shall be fully enclosed, weather tight, with an installed operating HVAC system. The installation area, stair treads, flooring and adhesive must be acclimated at a temperature between 65 – 85°F for 48-hours prior to, during and after installation. The relative humidity of the installation area shall be maintained between 35 - 55% per ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring).

Stair Tread Application

Cartridge adhesive automatically mixes when pumped through tip. Cut cartridge tip 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 nosing angle of the stair tread and the nosing of the stair step. Stair tread can be positioned immediately after adhesive application. The maximum adhesive open time is 10-minutes at 68°F (20°C). Higher temperatures will result in shorter open times. When positioning stair tread, make 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.**

Note: HELMICOL 3041 requires the use of the 18 stage 0.55" diameter, 8.5" static mixer.

Flooring Application

1. HELMICOL 3041 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 must be removed. Adhesive can be used on all grades of concrete on, above or below grade in the absence of moisture. Concrete shall be prepared according to the recommendations outlined in ASTM F710 (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring). Concrete shall be free from crazing, dusting, spalling and any curing or sealing compounds. Concrete 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.
3. Spread adhesive evenly using the recommended trowel. Refer to chart for trowel notch recommendations. Hold trowel at a 60° angle. Replace trowels with worn notches. Do not re-notch worn notches.
4. Note: The 3/4" x 3/4" x 3/4" U-notch trowel can be used as an alternative to the 1/6" x 1/6" x 1/6" V-notch trowel. Contact Helmitin for more information.
5. Once adhesive is applied, flooring shall be placed into adhesive within 10 - 15 minutes (higher room temperatures will result in shorter open times). Do not spread more adhesive than can be covered with flooring within the recommended working time. To insure transfer of adhesive to back of flooring, flooring material must be positioned while adhesive is wet. Kneeling boards are recommended when working on tile help reduce tile shifting and adhesive bleed through at tile joints. When installing sheet flooring, the use of a push board will help remove excess air under the flooring.
6. Immediately roll flooring in both directions with a 100 lb three-section roller to insure transfer of adhesive to back of flooring.

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.**

Post Installation

Stair Treads: Allow minimum 24 hours cure time before allowing foot traffic. Lower temperatures will require longer waiting periods.

Flooring: 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.

General Warranty & Precautions

Helmitin warrants 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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