

BIOCEL™ LAMINATE AND BIOCEL™ CUSHION INSTALLATION INSTRUCTIONS

BEFORE YOU GET STARTED:

No Special Techniques Required

Carpets with Signature polyurethane carpet backings are installed by conventional commercial broadloom techniques and require no special tools or materials. BioCel polyurethane carpet backings have a non-woven outer surface

Approved Installation Methods

Carpet with Signature's BioCel polyurethane backings have been expressly developed for indoor installations using the direct glue down method. Installation by any other methods will void important warranties.

Note: Consult with Signature before using any other installation method.

JOB SITE AND GENERAL CONDITIONS:

Storage: Store carpet and adhesives in a dry area. Avoid product distortion in storage. Never stack carpet more than two rolls high or stand rolls on end.

Acclimation: Bring carpet and adhesives into work space 24-hours before installation. Unroll carpet, allowing product to relax. HVAC and lighting systems must be in service. Maintain temperature between 65° and 95°F and maximum relative humidity 65%. Maintain these conditions 48-hours before installation, during, and 72-hours after installation.

Subfloor Conditions: Subfloor must be dry, level, and free from dirt, grease, oil, paint, sealer, old adhesives, and other residues. Repair or replace loose flooring substrates. Patch cracks in concrete subfloors with an approved latex patching compound mixed with latex additives, not water. For large areas requiring leveling, use a cement underlayment mix.

Concrete Moisture Content: New concrete subfloors must be cured. Slab temperature must always be above 55°F (13°C) before and during testing. All concrete subfloors, regardless of age, must be tested for excessive moisture content within the slab. There are two approved types of moisture testing used for testing moisture in the concrete slab. Moisture Vapor Emission Rate testing (MVER Calcium Chloride) tests vapor emissions of the concrete slab in a 24 hour period and the Relative Humidity (RH Probes) tests the moisture inside the concrete slab. All testing must be conducted utilizing the latest ASTM standards. Signature has identified and determined that the RH test method to be superior of the two methods.

Moisture Vapor Emission Testing: MVER should not exceed 10lb. per 1,000 square feet in 24 hours. This test must be conducted utilizing the latest edition of ASTM F-1869.

Relative Humidity Testing: RH testing should not exceed 90% relative humidity at any time. This test must be conducted utilizing the latest edition of ASTM F-2170.



Concrete Alkalinity Content: Test all concrete new or old, for excessive alkalinity. Perform test in accordance with ASTM F-710. If pH exceeds 9, notify general contractor for corrective measures. Floor should be treated as outlined below before installation.

Note: To treat, wash floor with one part muriatic acid to 10 parts water; rinse floor twice with cold water; wait 24 hours and retest. Repeat if necessary.

PLANNING AND LAYOUT:

Seam Diagram: Prepare a seaming diagram in advance, observing the following general guidelines: • Run seams lengthwise to major area(s).

- Run major seams parallel to, not across, traffic paths.
- Plan major seams so that natural or artificial light does not shine directly across them. • Avoid seams at major pivot points.
- Avoid seams which intersect perpendicular to doorways and entrances.

Note: For seams, allow trimming approximately 1" to 1.5" of actual face material. Patterns may require additional trimming

CUTTING AND SEAMING:

Carpet with BioCel polyurethane backings require seaming techniques similar to conventional commercial broadloom backing. Two methods are listed below. Consult Signature for their recommendations of specific products. Seam sealer is required.

Preferred Method: Row Cut/Row Cut-The preferred seam cutting method, especially for patterned products.

Alternative Method: Row Cut/Trace Cut-Primarily for non-patterned products or when the preferred method is not able to make an acceptable seam.

Seaming Tips:

- Use knee-kicker to position and flatten carpet.
- Use conventional row cutter with sharp blade to cut seams.
- Do not use factory edges for seams, trim in sufficient amount for good edge bond.
- Evaluate seam prior to installing.
- Re-cut seam if necessary to achieve desired appearance

ADHESIVE APPLICATION:

BioCel polyurethane carpet backings are compatible with standard premium multi-purpose carpet adhesives and seam adhesives. Be sure to provide proper ventilation when using carpet adhesives.

Warning: Inadequate adhesive spread rate, improper application of adhesive, or use of low-grade adhesive products not intended for commercial usage will void important warranties.

Trowel Size: With BioCel polyurethane, use a 3/32"x3/32"x3/32" V notch trowel.

Maintain consistent notch size throughout installation. Patterns may require more adhesives.

Apply Adhesive: Apply recommended adhesive to subfloor working in manageable sections. Adhesive ridges should be of sufficient height to achieve full and complete coverage of the substrate and carpet backing. Allow sufficient open or flash time to sustain proper transfer. To help speed up adhesive drying time, use high-speed fans.

SEAM SEALING:

Carpets with BioCel polyurethane carpet backings require seam sealing for edge-ravel and delamination properties.

Seam Sealing: Use an applicator or plastic squeeze bottle with an adjustable nozzle and apply a 1/8" bead of recommended seam adhesive to the edge of the first length seam at the primary backing level. Using the proper amount will ensure tight seams. Exercise care to prevent seam adhesive from getting on the carpet face.

Remove Excess Seam Adhesive: Seam adhesive will transfer to the adjoining edge and seal the seam. Remove excess seam adhesive along seams with a recommended cleaning solvent using a white cloth. Do not flood seam with cleaning solvent. Follow manufacturer's instructions regarding proper use of solvent.

Installation Complete

Roll Surface: Roll entire installation with a 75 lb. carpet roller.

Trim Perimeters: Use a wall trimmer or carpet knife to trim along wall edge.

Transition Strips: To prevent edge raveling at transition borders (wherever carpet meets hard surface flooring), transition strips are required.

AFTER INSTALLATION:

Vacuuming: Before the area is occupied, the entire installation should be vacuumed with an upright, cylindrical brush type vacuum cleaner.

Wiring Cut-Outs: Normally electrical and communications floor outlets are connected after the installation. If so, install directly over boxes and surface-mark with tape. Cut-outs can be made later.

Protect Until Occupancy: Protect carpet from other trades people and heavy traffic until occupancy. If furniture or other equipment is to be rolled over installation provide plywood or masonite sheets in traffic paths. Plastic film should not be used as carpet protection as it retards adhesive curing.

Note: Failure to provide adequate protection until occupancy, especially if carpet is installed before the work of all trades people has been completed, may result in damage and deterioration, and may void important warranties extended by the carpet manufacturer.

Hot Water Extraction: As with any direct glue-down installation, to ensure complete adhesive curing, do not hot water extract for at least 30 days.

Minor Repairs: Minor disfigurements such as cigarette burns often can be repaired by the circle cutting technique: (1) always check replacement material for exact color match; (2) remove damaged area with circle cutter; (3) cut a replacement of the same diameter; (4) apply seam adhesive to the perimeter of the patch; (5) align pile or pattern direction and press firmly into place.

FOR ADDITIONAL INFORMATION:

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