

## **Double-Stick Installation Procedures**

### Check List:

1. Newly poured concrete floors generally will take 90 to 120 days to cure. If the moisture content is over 65% carpet should not be installed until the concrete has cured to an acceptable level.
2. The alkalinity or PH in a concrete slab should be between the range of 5 and 9 for a double-stick installation.
3. The temperature of a concrete slab must be stabilized above 65° F both 24 hours prior to and after the installation.
4. The following environment conditions inside the building are critical for proper installation. Temperature must be between 65° F and 95° F and the humidity between 10% and 65% for at least 72 hours before and 72 hours after installation. In addition, adhesive and seam sealer should be stored under these conditions for a minimum of 24 hours prior to installation.
5. Old cut back adhesive must be properly sealed or removed prior to any double glue down installation. See note below.
6. Carpet should be rolled out and allowed to relax for at least 24 hours prior to installation.
7. Never install carpet over carpet.
8. Never cut carpet over carpet as this can result in over penetration of blade, and cutting of loops on the carpet underneath.
9. Carpet should never be folded or creased, as this can result in permanent wrinkles.
10. Furniture placement and heavy traffic should be avoided for at least 24 hours after a double-stick installation. Furniture and heavy equipment concentrate pressure on carpet and can cause an adhesive breakdown during movement over unprotected carpet. This may result in buckling and/or wrinkling. It is strongly recommended that during this move-in phase, plywood or masonite board be used over the carpet to spread the concentrated weight of furniture and heavy equipment.

### **Traffic**

Allow installation a minimum of 24 hours to set before subjecting to heavy traffic, moving of furniture and equipment. It is best to cover the carpet in traffic lanes with sheets of masonite or plywood boards when furniture or heavy equipment is moved over carpet.

**NOTE:** Asbestos-containing floor tiles, any adhesive possibly containing asbestos or other asbestos containing floor coverings require special preparation, handling and removal procedures. Consult appropriate local or state authorities or the Resilient Floor Covering Institute before disturbing any suspected asbestos containing material.

**Lay Out Carpet** It is always advisable to lay the carpet out the day before the installation. This will allow the carpet to relax and work better. When feasible, install carpet so the majority of the traffic is in the lengthwise direction. Issued May 2014 Page 2



### **Cushion/Padding**

To achieve best performance, a high density cushion of no more than 1/2" thick and not less than 18 lbs. density is recommended. Low density cushions cannot be successfully used on double-stick installations. Excessive flexing with low density cushions will cause installation failure (additionally, some pads will absorb adhesive). These characteristics must be reviewed with the pad manufacturer prior to installation.

### **Installing Cushion/Padding**

Cushion should be installed in longest lengths possible with consideration for traffic pattern seam placement. Place cushion seams to offset carpet seams six (6) inches. After pad breadths are in place, fold or roll cushion back and spread with a premium releasable adhesive or multi-purpose adhesive with a 1/16" x 1/16" x 1/16" trowel. Allow the adhesive to set until "tacky" dry. Lay pad into adhesive and trim flush with wall or base board.

### **Installing Carpet**

Cut carpet to the necessary length and lay into proper position. Trim selvage using best method. Follow yarn row on tufted and woven products when possible. When trimming seams, do not allow knife to penetrate through the cushion. This could cause loss of adhesive. Fold carpet three (3) feet on each side of seam and apply proper adhesive using trowel and spread rate according to the adhesive.

Open time depends on the amount of humidity in the area. Higher humidity requires longer open time. Squirrel cage carpet fans may be used to help the adhesive set faster. A good double-stick pad will not absorb adhesive and will require more open time for adhesive to

become tacky. A good double-stick pad will not absorb adhesive and will require more open time for adhesive to become tacky. Turn air conditioner on in summer or heat on in winter to reduce humidity to below 65%. **INSTALLING CARPET BEFORE ADHESIVE HAS REACHED A "TACKY" STAGE WILL RESULT IN INSTALLATION FAILURE.**

After sufficient open time, fold or drop one side of carpet into adhesive. Apply edge sealer to the side of the carpet backing material. Fold and push next side against first. Roll carpet into the adhesive with a 35-50 lb roller in both widthwise and lengthwise directions to attain a good transfer of adhesive to the back of carpeting.

### **Pattern Matching**

It must be understood that carpet is a textile and cannot be made to exact specifications. All pattern carpet is subject to certain manufacturing tolerances, therefore, a perfect match cannot be guaranteed. Tolerances for patterned carpet are: Bow: 1-1/2 inch across the 12 foot width Skew (Bias): 1-1/2 inch across the 12 foot width Pattern Elongation: 2 inches in 12 feet in the length. If you are having trouble matching a pattern, stop and call the mill at once. NOTE: Pattern installation instructions and diagrams shipped in each roll of carpet.



### **Suggested Tools and Material Needed?**

Cushion to be at least 18 oz density or greater with no more than 1/2" thickness. It is imperative that individual manufacturers be contacted regarding their specifications. Forth Surfaces will not be responsible for the use of cushion/padding that does not conform with the stated recommendations.

- Use a releasable or premium multi-purpose adhesive between cushion and floor. Trowel size should be 1/32" x 1/32" x 1/32" U-Notch.
- Use a double stick adhesive between carpet and cushion. Trowel size should be 1/8" x 1/16" x 1/8" U Notch Trowel. Issued May 2014 Page 3
- Use a solvent base seam sealer. Forth Surfaces recommends using hot melt tape under seams using the double stick method of installation.
- Use a 35-50 lb roller.
- Forth Surfaces does not recommend the use of tool trays, carpet cores, or boards to transfer adhesive from cushion to carpet. These methods usually result in squeeze-out of the adhesive and could cause pockets of poor adhesion (bubbles).
- NOTE: A good double stick seam tape can be used for carpet with PermaLoc or ActionBac. This information, based upon Forth testing and field experience, is offered as a customer service. It is intended for use by persons having installation and experience and must be employed at their own discretion and risk. We do not guarantee results, and we assume no liability in connection with its use.

### **Warranties: PermaLoc PermaLoc Tufting System Warranty**

#### **I. Items Under Warranty**

1. Wear – Forth Surfaces warrants that the carpet will not wear more than 10% of its surface pile weight from abrasive wear for 10 years. By abrasive wear is meant fiber loss from the carpet through normal abrasion, not crushing or flattening of the carpet pile in any area, nor staining, soiling, fading or change in carpet appearance, nor fiber loss due to abnormal usage of the carpet.
2. Zippering – Forth Surfaces warrants that the designated carpet will not zipper or develop continuous "pile yarn runners" for 10 years.
3. Dimensional Stability – Forth Surfaces warrants that the carpet will not lose its dimensional stability (i.e. growth or shrinkage with either stretch-in or glue down installations) for 10 years due to normal variations in atmosphere, temperature or humidity.
4. Delamination – Forth Surfaces warrants that the carpet will not delaminate for 10 years from the date of installation.
5. Tuft Bind – Forth Surfaces warrants that the material used to bind the tufts here will not break down if saturated. In addition, the tuft bind is equal to or greater than the tensile strength of the yarn, so the yarn will break before it comes out of the backing. II.

#### **Limitations**

This warranty does not include:

1. Disfigurement or damage caused by abnormal use or any damage to the carpet not arising out of defect in the carpet. For example, the warranty does not cover tears, burns, pulls, cuts, installation on stairs or damage resulting from improper cleaning agents or methods, or damage in transit.
2. Edge ravel where carpet is cut for access to floors outlets and around trench header ducts.
3. Abuse by any athletic equipment such as roller skates, ski boots or golf shoes.
4. Differential fading from light exposure, shading, pile crush, dye lot difference and soiling.
5. Any condition that would have been visible upon inspection prior to installation.



6. Any condition resulting from other than ordinary wear, or from any use for which the product was not designated.

**III. Obligations of owner**

1. The owner must submit notice of all claims under this limited warranty to Forth Surfaces within the specified warranty period.
2. Claims must be submitted in writing and delivered to: Forth Surfaces – 402 North Park Drive – Dalton, GA 30720
3. All areas in which carpet is to be replaced under the terms of this limited warranty must be cleared of all equipment, furnishings, partitions, and the like that have been installed over the carpet subsequent to the original carpet installation, at Owner's Expense.