

# DemoFlex™ TMS: Installation Instructions

## Preparation & Installation Techniques for Spray Adhesive, Membrane and Tile or Stone:

1. 68 degrees F (20 C) is the ideal temperature for DemoFlex TMS to be applied and should be stored at that temperature for 24 hours prior to application.
2. Substrate must be structurally appropriate to accept ceramic tile according to TCNA standards. Substrate must be prepared in accordance with ASTM F71011. Ensure that the substrate is dry, clean and dust free. Lightly damp-mop the substrate if dust is present. Do not apply DemoFlex Adhesive to adhesive residue or debris. Use appropriate adhesive removers or neutralize any residues by scratch coating with a portland based floor patch or leveling compound.
3. Wipe hand across surface. If dust transfers, the substrate is not clean.
4. HVAC must be continuously operated for a minimum of 72 hours at a temperature of not less than 68 degrees F (20 C) prior to installation.
5. Protect walls and perimeter from overspray with a spray shield, drop cloths, paper or masking.
6. Shake DemoFlex aerosol spray adhesive can vigorously. Remove cap and test spray into empty box or garbage can.
7. From an upright, standing position: hold adhesive can upside down approximately 20-30 inches (50-70cm) from the substrate, aim at the floor and press side of tip with finger. Adhesive should spray out in a wide mist and fall similar to snow. Apply the Adhesive about 1' to 2' along all the perimeter walls, except at the exit door. After covering the perimeter, then go to the farthest point of the room filling in the field as you work your way out of the room. Spray from side to side achieving the spray pattern results and coverage percentage shown in the provided example photos. Excessive application of DemoFlex Adhesive will not increase bonding strength.
8. If the Adhesive does not achieve a wide mist spray pattern, changing to the provided replacement tip may be required by pointing the Adhesive into a box or garbage can then pulling off the clogged tip and pushing a new tip into place. If the Adhesive can will be stored for an extended period of time, remove adhesive build up from the spray tip that may occur during the first application of the adhesive. Insert a small pin into the tip to prevent clogging during extended storage times to ensure optimal spray pattern. Upon reuse, if a wide mist pattern is not attainable due to adhesive build up at the tip, replace the tip with the provided spare tip.
9. If overspray occurs, quickly remove it with a damp cloth while the adhesive is still wet.
10. Allow Adhesive to become tacky until there is no adhesive transfer when lightly touched with your fingers (approx. 30 min). A fan can be used to reduce the tacking/activating time of the DemoFlex Adhesive, but high humidity and/or low temperatures will prolong the activation time of the Adhesive.
11. Pre-cut easily manageable length pieces off of the roll of DemoFlex Membrane and proceed to securely press the Membrane into the DemoFlex Adhesive within 3 hours of adhesive becoming fully tacky, preventing dust/debris contamination to the adhesive.
12. Start at the doorway as you lay the pre-cut pieces into the DemoFlex adhesive, leaving 1/8" to 1/4" gap between the sheets or overlap the sheets slightly and cut off the overlap portion. It is acceptable to walk on the Membrane as soon as it is placed into the Adhesive. Be sure to install large pieces along the walls, placing smaller fill pieces in the center/field. Thoroughly press the entire surface of the membrane into the adhesive by hand/foot or 35lb roller within 1 hour after installation to complete the bonding process.
13. Bridge the seams of the DemoFlex Membranes using DemoFlex Tape or DemoFlex Caulk spanning 1" onto each sheet of membrane. Apply the DemoFlex Tape or DemoFlex Caulk around the perimeter of the installation area. When using DemoFlex TMS Sound Membrane, to isolate wall vibrations from the floor installation, wrap the Membrane up the wall 2-3" and adhere using DemoFlex Adhesive or a quality caulk or cove base adhesive. Fill cavities between pipes run through the floor with pieces of DemoFlex and seal with silicone caulk.

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Proceed to install ceramic tile or stone immediately according to industry standards set forth by the Tile Council of North America (TCNA) and the American National Standards Institute (ANSI). Although we recommend that fast-set mortars be used to set tile, any high quality medium bed or large format mortars can be used. A non-modified mortar with liquid latex additive should be used in commercial 'walk-off' areas to ensure the highest moisture resistant installation possible.

14. Mix mortar according to manufacturer specifications.
15. Back of tiles should be free from dust/debris.
16. Use flat side of the trowel to key the mortar into the DemoFlex Membrane.
17. Use the proper notched trowel to maximize coverage of the mortar under the tiles and along all edges and corners. It is recommended to scratch coat the back of the tiles.
18. Comb the mortar with the trowel across your body in the same direction in an area of about 4 to 6 sq ft or as needed for large format tiles.
19. Press the tile into the mortar without too much delay, pushing it perpendicular to the ridges of the mortar.
20. It is recommended to use a 'beating block' and rubber mallet to ensure that the tile has been properly imbedded into the mortar along with a tile leveling system to eliminate chances of lippage.
21. Remove any excess mortar off of the Membrane so the mortar does not dry out.
22. Be sure to clean the mortar out of the grout lines so an even amount of grout can be installed between the tiles.

## PLEASE NOTE:

If water is spilled onto the Membrane prior to tile installation, simply blot it up and let it thoroughly dry. Enough water spilled may require cutting and replacing parts of the membrane or entire sheets in the affected area. Replacing sheets of membrane will require another application of spray adhesive (step 2).

## Installing DemoFlex TMS over Electric Heat:

- A. Install the electric heat as instructed by the manufacture of the electric heat.
- B. Apply fill coat over the electric heat with a smooth mortar or a self-leveling compound so the surface is flat without deep textures, large gaps or cavities.
- C. Let the fill coat or self-leveler cure (up to) 36-48 hours, depending on environmental conditions.
- D. After the fill coat or self-leveling is completely dry, use a trowel, wide putty knife or scraper to remove any small ridges or burrs so the surface is smooth.
- E. An additional, thin scratch coat may be necessary to ensure the surface is smooth and flat.
- F. After the additional scratch coat is thoroughly dry, apply the DemoFlex Adhesive and install the DemoFlex Membrane, then proceed installing the mortar, tile and grout.

## Commercial walk-off entrance areas:

Although DemoFlex is highly moisture resistant, it is Not intended for use in submerged or very wet areas such as showers or in the types of walk-off entrances that are exposed to extreme amounts of standing water. If you wish to use DemoFlex in a walk-off entrance, be sure to coat all of the seams and perimeter of the membrane with a high quality urethane caulk sealant and we recommend leaving the membrane 6-12" away from the walls and door entrances. Use a non-modified mortar mixed with a latex additive to set the desired tile. Fill the joints of the tile with an epoxy grout.

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