



Tile Installation over Nuheat Membrane

The Nuheat MEMBRANE SYSTEM by PENTAIR combines the benefit of an underlayment membrane with the comfort and convenience of electrical floor heating. Nuheat Membrane can be installed over the entire subfloor as an uncoupling, crack isolating and waterproofing membrane. The Nuheat Cable Floor Heating System is then installed in the areas where heat is desired. Once the Nuheat Heat Cable is installed you can begin tiling immediately, no waiting is necessary.

Custom Building Products recognizes this heating membrane as an uncoupling membrane and recommends installation to comply with Tile Council of North America (TCNA) methods for utilizing uncoupling membrane underlayment in the tile assembly. Use of this system should be limited to Residential and Moderate Commercial floors as defined in the TCNA Handbook.

Concrete and Wood subfloor should be prepared per the Nuheat Membrane System and CUSTOM installation instruction. The Nuheat membrane should be installed to the prepared concrete or wood floor with the selected CUSTOM Dry-set Modified Mortar (see options below), using a 1/4"X1/4"X1/4" square notched trowel. The membrane should be pressed into the mortar, collapsing all ridges. Periodically lift the membrane and check to assure full transfer of the mortar to the backside of the membrane.

After the wires are installed, the ceramic or natural stone tile can be installed to the surface of the Nuheat membrane with the same CUSTOM Dry-set Modified Mortar, as used under it. The depressions in the membrane should be completely filled with the mortar and then use an appropriate notched trowel to spread the mortar over the installed membrane surface. CUSTOM large format Dry-set Modified Mortars are suitable for installing all sizes of tile, including those with one side greater than 15". It is important to achieve 95% mortar coverage of the back of the tile. This can be achieved with larger notched trowel, i.e. 1/2"X1/2"X1/2", and back buttering the tile when installing large format tile. Periodically remove a tile and check for acceptable transfer to the back of the tile.

Recommended CUSTOM Dry-set Modified Mortars:

MegaLite® Ultimate Crack Prevention Large Format Tile Mortar – unsurpassed bond strength and contributes to a lifetime system warranty.

ProLite® Premium Large Format Tile Mortar – non-slump, high bond strength and contributes to a 25 year system warranty.

Versabond®-LFT Professional Large Format Tile Mortar – standard mortar for large and heavy tiles and contributes to a 10 year system warranty.

The tiled assembly should be allowed to cure 24 hours before grouting. We recommend filling the joints between the tile with **CUSTOM Prism® Color Consistent Grout**. Follow manufacturer's installation instructions, making sure all grout haze is completely removed from the tile. We recommend sealing the grout with **Aqua Mix Sealer's Choice Gold** penetrating sealer after the grout has cured.

Custom Building Products will warrant a properly installed tile assembly up to a lifetime, depending on the mortar selected for the installation. Requirements and Limitations for the warranty can be reviewed at www.custombuildingproducts.com.