



Waterproofing makes all the difference in dual-level deck

TileDek membrane and porcelain tile resolves long-standing water intrusion issues

Water intrusion into the living space from two decks continually frustrated a Utah homeowner. The client of a three-story residence had two large outdoor decks – the site of much of the client’s entertaining. The lower deck was over the main living area of the home, and the upper deck served as a roof for the lower deck.

Although the homeowner was seeking the services of a new decking contractor – E&B Construction of Ogden, Utah – she shared that the original contractor used a simple roll-on liquid coating /fiberglass mesh system to attempt to waterproof the decks. When it failed, the original contractor charged the client

to re-apply the same ineffective coating. After a hearty winter in the South Ogden area, the same issues arose, clearly demonstrating the waterproofing technique was ineffective.

The client noticed a TileDek binder that E&B brought to a meeting and inquired about using tile as a deck surfacing material and how suitable it was. The contractor had learned about TileDek (www.duradek.com/tiledek) from a trade show and internet research, and concluded it was the best option for tiling outdoors, offering a fully-warranted system,

The resulting deck used 20" x 20" Silk Crest porcelain in Cashmere from Bedrosians for a beautiful, enduring finish.

even over living spaces.

Skittish after her initial experience with an ineffective system, the client was still hesitant. E&B explained some facts about the product, such as the fact that TileDek meets roofing standards, provides local, company-trained installers that stand by the product's performance and Duradek – the manufacturer – offers a 10-year warranty. After some deliberation, the client settled on a tiled deck with the TileDek membrane for waterproofing. MBL Construction of Kaysville, Utah was contracted to do the waterproofing and tile setting.

Unfortunately, the water damage was more extensive than originally anticipated, and the substrate had to be replaced. The flexibility of TileDek allowed the MBL to wrap the columns and prepare them for 20" x 20" Silk Crest porcelain tile from Bedrosians as a deck finish.

Work started with the lower deck over the living space and progressed quickly. As soon as the TileDek membrane was applied, tile setters installed the tile using DUROCK NextGen tile backer, MAPEI Ultra Flex 2 as a bond coat and MAPEI Granirapid thin-set mortar. The tile was then grouted with MAPEI epoxy grout and urethane caulk. The project progressed so quickly the homeowners were able to entertain on their deck at an upcoming party and have the peace of mind of knowing the water issues were resolved and they possessed a beautiful, enduring tile deck.



Ineffective waterproofing on upper and lower level decks in this Odgen, Utah home caused extensive water damage and the need to replace the substrate.



After replacing the substrate, MBL Construction readied the surface for tile by installing the TileDek membrane, tile backer and bond coat of MAPEI Ultra Flex 2 .



The flexibility of TileDek allowed the installer to wrap the columns and prepare them for tile installation.