Emseal's Emshield DFR2 structural expansion joint

An Emseal Joint Systems product story

Edited by the Buildingtalk editorial team Feb 11, 2009

Emseal introduces breakthrough Emshield DFR2 fire-rated, watertight, trafficable structural expansion joint.

Emseal, the leading manufacturer of premium sealants, expansion joints and gasket products, announces the first ever trafficable, watertight, fire-rated, high-movement, UL-certified expansion joint, the Emshield DFR2.

The hybrid silicone and impregnated precompressed foam sealant system is ideal for new or retrofit use in construction and infrastructure applications.

Structures that will benefit from this life-safety enhancing technology include parking decks, stadiums, arenas, hospitals, schools, universities, airports, and any structure where containment of fire at structural expansion joints is required.

"Before DFR2, expansion joints required separate products to seal, bridge, and fire-rate joints," comments Emseal President and CEO, Lester Hensley.

"That meant separate material and installation costs as well as aesthetic and substrate configuration compromises to accommodate the mineral wool, fire-caulk, fire blankets or cover plates needed to perform the multiple functions required".

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Emshield DFR2 is comprised of fire-retardant-impregnated foam pre-coated on the underside with an intumescent fire-proofing material and pre-coated on the traffic surface with highway-grade, fuel resistant silicone.

It is installed into field-applied epoxy adhesive primer and finished with field-injected silicone sealant bands against the substrates.

The result is a single product that can withstand vehicular and other traffic, handle thermal, traffic, wind, and seismic induced movements, provide waterproofing protection of adjacent building materials and occupied spaces below, while providing the life-safety protection of a 2-hour fire rating.

“This is truly a game changer,” says Emseal Vice President, Dan O'Hayer.

“Market-driven RandD has been at the heart of Emseal’s goal to address, through innovation not imitation, the shortcomings of previous technologies and the challenges of ever-changing building requirements”.

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