TO WHOM IT MAY CONCERN:

Re: Aging of CP 25WB+ Latex-Based Caulk

During the development of CP 25WB+ Latex-Based Caulk, 3M established design and performance criteria to address the aging properties of this intumescent system. The caulk in the dried state was subjected to a series of environmental conditions to determine their effect on the intumescent properties. These conditions included elevated temperatures, water immersion, high humidity, gamma radiation, organic solvent exposure (gaseous and liquid), and chemical exposure.

Using as a guideline the IEC 216-1 “Guide for the Determination of Thermal Endurance Properties of Electrical Insulating Materials,” data from the elevated temperature exposures was used to construct an Arrhenius Plot to predict service life at normal room temperature.

Based on the results of the Arrhenius Plot, the performance life is predicted to be in excess of 50 years, based on the minimum designed intumescent properties.

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