

3M

Fire Protection Products



To Whom It May Concern:

During the development of 3M FireDam™ Spray and 3M Fire Barrier Spray, 3M established design and performance criteria to address the aging properties of these fire protection materials. The spray, in the dried state, was subjected to a series of elevated temperature conditions to determine the effect of time/temperature on the tensile strain (elongation) property of the dried spray film.

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.

From the results of the Arrhenius Plot the service life of 3M FireDam™ Spray and 3M Fire Barrier Spray is in excess of thirty (30) years, based on the minimum designed tensile strain (elongation) property.

A handwritten signature in black ink, appearing to read "Max Harshbarger". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Max Harshbarger
3M Fire Protection Products
Technical Service Manager
September 14, 2001

Reviewed by *gw7*

MDH90296