

## EVERFLEX FIRE MATE SEALANT

### DESCRIPTION

EVERFLEX FIRE MATE is a five hour rated, one part, emulsion acrylic based, intumescent sealant that gives a firm yet flexible seal to joints in a variety of fire rated structures. Tested following the principles of BS 476 part 20 (1987) as detailed in Warrington Fire Research Report No. 144508/B (Feb 2005). The product, in suitably designed joints will resist the passage of fire for up to 5 hours. The selected fillers used in this formulation also make it suitable for use as an acoustic sealant.

### BENEFITS

- \* When exposed to heat, it swells greater than 3 x it's original size, so creating a char that will resist the passage of fire for up to 5 hours.
- \* No priming required for most construction substrates
- \* Joint movement capability of +/- 20%.
- \* For use in joints up to 50mm wide.
- \* Halogen free.
- \* Non slump - easy to apply and tool off.
- \* Fast cure - tack free in 15 minutes.
- \* Overpaintable.

### AREAS FOR USE

- \* Sealing joints, voids and irregular holes in fire walls, partitions and other structures; also for maintaining the integrity of pipes and cables that penetrate them.
- \* For internal perimeter pointing of fire rated door and window frames.

### LIMITATIONS

- \* Not for use on substrates that may bleed oils, solvents or plasticisers.
- \* Not for use where joints are constantly immersed in water, or as part of structural glazing systems.

### SURFACE PREPARATION

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application.

**APPLICATION**

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. Improve adhesion by wiping surface with EVERFLEX GLASS CLEANER allowing all solvent to evaporate before applying sealant. Priming is generally not required, although we always advise testing small areas prior to use. Large voids should first be filled with EVERFLEX FIREFOAM B1 to maximize fire rating.

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood wetted with linseed oil or white spirits. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application *Single seal joints should be on the fire rated side of the structure.*

**SPECIFIC DATA**

Slump:	Nil in joints up to 50mm
Max Joint Width:	50mm
Working tome:	10 minutes
Skin over time:	10 minutes
Tack free time:	15 minutes
Joint movement:	+ - 20% of original size
Cure rate:	3mm/24hrs at 50% Relative Humidity 23°C
Fire test temp:	1160°C - intumescent @ ca. 135°C
Cleaning:	Uncured with a dampened cloth
Packaging:	C3 plastic cartridges
Colours:	White

**FIRE RATING TABLE****FIRE TEST RESULTS – WALL SPECIMENS**

<b>SPECIMIN</b>	<b>GAP FACE MATERIAL COMBINATION</b>	<b>WIDTH/DEPTH MM</b>	<b>BACKING MATERIAL</b>	<b>INTEGRITY (MINS)</b>	<b>INSULATION (MINS)</b>
<b>E</b>	<b>Aerated concrete/steel</b>	<b>30/15</b>	<b>PE open cell foam</b>	<b>300</b>	<b>91</b>
<b>F</b>	<b>Aerated concrete/aerated concrete</b>	<b>20/10</b>	<b>PE open cell foam</b>	<b>300</b>	<b>300</b>
<b>G</b>	<b>Aerated concrete/aerated concrete</b>	<b>10/10</b>	<b>PE open cell foam</b>	<b>300</b>	<b>#</b>
<b>H</b>	<b>Aerated concrete/aerated concrete</b>	<b>30/15</b>	<b>PE open cell foam</b>	<b>300</b>	<b>215</b>

**FLOOR SPECIMENS**

<b>SPECIMIN</b>	<b>GAP FACE MATERIAL COMBINATION</b>	<b>WIDTH/DEPTH MM</b>	<b>BACKING MATERIAL</b>	<b>INTEGRITY (MINS)</b>	<b>INSULATION (MINS)</b>
<b>A</b>	<b>Aerated concrete/aerated concrete</b>	<b>30/15</b>	<b>PE open cell foam</b>	<b>300</b>	<b>66</b>
<b>B</b>	<b>Aerated concrete/aerated concrete</b>	<b>20/10</b>	<b>PE open cell foam</b>	<b>300</b>	<b>133</b>
<b>C</b>	<b>Aerated concrete/aerated concrete</b>	<b>10/10</b>	<b>PE open cell foam</b>	<b>300</b>	<b>#</b>
<b>D</b>	<b>Aerated concrete/aerated concrete</b>	<b>50/25</b>	<b>PE open cell foam</b>	<b>300</b>	<b>214</b>

TECHNICAL DATA SHEET NO: 012

VERSION: 3/1<sup>st</sup> JUNE 2005

PAGE: 4 of 4

PRINT DATE: 6/1/2006

**# Evaluation against the insulation criteria of the standard could not occur due to the width of the specimen.**

**The overall test was discontinued after a period of 300 mins.**

#### **HEALTH AND SAFETY**

Non Hazardous in normal use. If contact occurs wash thoroughly with water. Keep out of reach of children

#### **STORAGE**

Store in cool dry conditions between + 5°C and 30°C. PROTECT FROM FROST

#### **SHELF LIFE**

Use within 12 months.