

PRODUCT DATA SHEET

EVERBUILD® Fire Mate®

AN INTUMESCENT ACRYLIC SEALANT THAT SWELLS WHEN EXPOSED TO TEMPERATURES IN EXCESS OF 125°C TO PREVENT THE PASSAGE OF FIRE AND SMOKE

PRODUCT DESCRIPTION

EVERBUILD® Fire Mate® is a five hour rated, one part, emulsion acrylic based, intumescent Acoustic sealant that gives a firm yet flexible seal to joints in a variety of fire rated structures. 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.

USES

- 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.

CHARACTERISTICS / ADVANTAGES

- When exposed to heat, it swells greater than 150% of its original size, creating a char that will resist the passage of fire for up to 5 hours.
- No priming required for most construction substrates.
- Permanently flexible with more than 100% elongation to ISO8339.
- For use in joints up to 50mm wide.
- Excellent acoustic properties for sound deadening - Average noise reduction of 24db (100-3150Hz).
- Non slump - easy to apply and tool off.
- Fast cure - tack free in 15 minutes.
- Overpaintable.

Slump

Nil in joints up to 50mm and 0mm to ISO7390

Max Joint Width

50mm

Skin over time

10 minutes

Tack free time

15 minutes

Full Cure

3 to 5 days, dependent on thickness, ambient temperature and humidity

Fire test temp

1160°C

APPROVALS / STANDARDS

Tested following the principles of BS EN 1366-4:2006 as detailed in Warrington Fire Research Report No. 181967 (May 2009). BS EN 1366-3:2009 as detailed in Warrington Fire Research Report No. 349127 (February 2015). Acoustic rated to BS EN ISO 140/3. Tested for air permeability to EN13141-1. EN15651-1 F-EXT-INT Class F7.5P.

Certified under the harmonized European standard EN15651 for façade for interior and exterior applications in compliance with the Construction Product Regulation.

Fire Test Results

Backing Material - PE Open Cell Foam

Wall Specimen

Specimen	Gap Face Material Combination	Width/D epth MM	Integrity (Mins)	Insulation (Mins)
G	Aerated concrete/Aerated concrete	12/6	301*	222
H	Aerated concrete/aerated concrete	30/15	301*	301*
I	Aerated concrete/softwood	12/6	108	75
J	Aerated concrete/hardwood	12/6	153	152
K	Aerated concrete/softwood	30/15	114	114
L	Aerated concrete/steel	12/6	301*	80

Floor Specimen

Specimen	Gap Face Material Combination	Width/D epth MM	Integrity (Mins)	Insulation (Mins)
A	Aerated concrete/aerated concrete	12/6	301*	196
B	Aerated concrete/aerated concrete	30/15	301*	81
C	Aerated concrete/aerated concrete	50/25	301*	74
D	Aerated concrete/steel	12/6	288	43
E	Aerated concrete/steel		301*	41
F	Aerated concrete/steel		290	35

*The overall test was discontinued after a period of 301 mins.

PRODUCT INFORMATION

Chemical Base	Acrylic
Packaging	295ml cartridge
Colour	Brown, Grey and White
Shelf Life	24 months from date of manufacture
Storage Conditions	Store in cool dry conditions between +5°C and +30°C. PROTECT FROM FROST
Density	1.6 - 1.65g/cm ³
Movement Capability	+/- 7.5% of original size
Joint Design	Max Width - 50mm
Curing Time	3 to 5 days, dependent on thickness, ambient temperature and humidity
Skin Time	10 minutes
Tack Free Time	15 minutes

APPLICATION INSTRUCTIONS

SUBSTRATE 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 METHOD / TOOLS

The surfaces to be must be clean, dry and free from dust, grease and other contaminants. Improve adhesion by wiping surface with EVERBUILD GLASS CLEAN-

ER 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 EVERBUILD 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.

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.
- Known to have compatibility problems with some CPVC piping.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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