



## KNAUF INTUMESCENT & ACOUSTIC MASTIC

### **Versatile and economic application for both fire and acoustic needs :**

Knauf Intumescent and Acoustic Mastic is a rapid curing, water based acrylic expanding fire resistant mastic. It is used for sealing individual or grouped services or for linear joint seal in fire separating walls and floors to prevent the spread of fire and smoke from one compartment to another.



## Knauf FR Intumescent & Acoustic Mastic For Sealing Linear Construction Joints

### Product Description

Knauf FR Intumescent & Acoustic Mastic is a versatile and economic intumescent sealant used to provide fire resistance in compartment walls (including gypsum stud walls) and floors where openings in these construction elements are formed where linear joints (discontinuities) are located. In a fire attack situation, Knauf FR Intumescent & Acoustic Mastic expands to form a robust char barrier which prevents the passage of flames and hot gases through such openings and which restricts temperature rise on the non-fire side of the wall or floor.

Knauf FR Intumescent & Acoustic Mastic can be used with a variety of backing materials and is tested for use with a wide range of gap size, in most cases requiring only a thin layer of sealant. It can be used in low movement linear gaps up to 30mm wide, **WITHOUT THE REQUIREMENT FOR ANY BACKING MATERIAL**. The product has additionally undergone 'reaction-to-fire' testing and shown to have low smoke and toxic properties upon combustion.

Knauf FR Intumescent & Acoustic Mastic will maintain the acoustic design performance of the separating element (see acoustic performance data).

Knauf FR Intumescent & Acoustic Mastic is available in 310ml cartridges as standard. A bead 12mm x 6mm will fill a gap length of 4.3M (approx.)

### Physical Properties

Composition:	Viscous paste with intumescent additives
Colour:	White
Sg:	1.6 - 1.66
pH:	7.9 - 8.66
Thermal Conductivity:	0.845 W/mK
Solids %:	> 80
Cure:	By evaporation
Activation temperature:	Approximately 180° C
Application temperature:	+4°C - +35°C
Service temperature:	-15°C - +75°C
Limitations:	Do not use in conditions of continuous immersion, below ground or in areas of abrasion
Storage:	Store between 10 - 35° C, do not store below 5° C
Shelf life:	15 months in unopened tubes

### Installation Instructions

#### Construction Linear Joints

1. Remove all loose debris, grease, oil and bituminous material.
2. Install any required backing material to the correct depth. A width to depth ratio of 2:1 is recommended to avoid future defects caused by material shrinkage.
3. Extrude sealant into joint removing any air voids by applying light pressure. Use a wet spatula or flat tool to provide a smooth finish to the seal.

### Fire Performance

Tested in accordance with **EN1363-1:1999 & EN1366-3:2004** with fire resistance rating of up to 120mins.

### Acoustic Performance

In accordance with BS EN ISO 717-1:1997, Knauf FR Intumescent & Acoustic Mastic will provide a 25dB improvement in sound attenuation when installed in an unsealed gypsum partition wall.

Rating: Rw (C; Ctr) 40 (-3; -8) dB

**Knauf FR Intumescent & Acoustic Mastic is free from volatile solvents and asbestos. This data sheet should be read in conjunction with the MSDS for this product.**

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