

# **Kincora**

## **PRODUCT INFORMATION SHEET**

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This Information Sheet is for products KIN 1G-FR

### TECHNICAL DATA SHEET:

PRODUCT: MULTIFOAM 1G-FR FIRE RATED TO BS 476:PART 20-23:1987

### INTRODUCTION:

MULTIFOAM 1G-FR is a one-component, moisture curing polyurethane structural foam in an aerosol can. By absorbing moisture the foam is tack free in 10 mins and fully cured in 30 mins, under ambient temperature and humidity conditions.

It has been developed primarily for use with the PAGERIS foam gun. By using the gun you will have total control over the output volume of the foam, from a very thin trickle to a full flow. When foaming is finished, by closing the flow adjustment screw at rear of gun, this will leave the gun airtight and ready for use next time.

MULTIFOAM 1G-FR is the foam that meets with the requirements of existing building and construction specifications and is Fire Rated to Specification BS476:PART 20-23:1987. It is designed to fix and provide insulation for doors and windows made of wood, metal and other materials.

MULTIFOAM 1G-FR bonds excellently to all mineral surfaces including critical materials such as expanded concrete, light-weight concrete and similar materials. For optimal bonding, surfaces should be free of solvents, dust and grease.

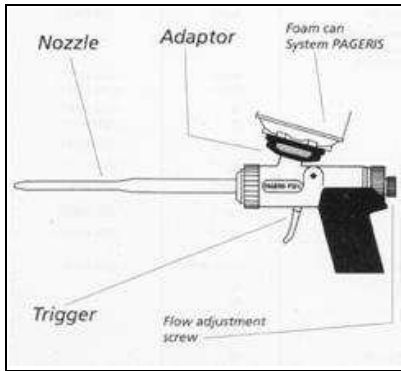
### PRODUCT APPLICATION:

The following procedures should be adopted when using MULTIFOAM 1G-FR.

- (a) The can and its contents should always be at a temperature above 5°C to react properly.
- (b) Shake the can well until the contents are uniformly mixed and the sound of liquid material can be heard.
- (c) Screw MULTIFOAM 1G-FR can into the adaptor on the foam gun as shown below.

### CAUTION:

- \*Can should always be mounted on gun to keep the system filled with foam up to the nozzle.
- (d) To remove 1G-FR can, when empty, turn gently. When can is hard to remove, lightly tap on adaptor with nylon hammer.
- \*Do not perform "do-it-yourself" repairs.



\*If in doubt contact KINCORA

- (e) When commencing use of the gun, the flow adjustment screw should be open about half way (3 or 4 turns), the trigger should be pulled and the foam allowed to flow to clear the air in the gun.
- (f) The flow adjustment screw controls the rate of dispensed foam, and the size of the bead delivered. The more the screw is opened the greater the rate of foam delivered.
- (g) IMPORTANT - when foam dispensing is finished the flow adjustment valve must be tightly closed.
- (h) CAN REPLACEMENT - This MUST be done quickly,

where the new can is thoroughly shaken, the empty can unscrewed and the new can screwed on to the adaptor. This should be done WITHIN 1 MINUTE to ensure that foam does not cure and block the adaptor.

(i) Whilst there is no limit to the number of cans that can be dispensed, one after the other, it is recommended that after every 12 cans or so, a can of GUN FOAM CLEANER is screwed onto the gun to flush it out thoroughly. This prevents any foam build up in the system.

(j) MULTIFOAM 1G-FR should be dispensed to almost fill gaps, holes or cracks and left to expand to fill the spaces completely during the curing process.

(k) Initial cure to a tack free condition takes about 10 mins and MULTIFOAM 1G-FR is ready to be cut in its final state after 30 mins.

#### PROCESSING TIPS:

\* See MULTIFOAM 1 DATA

#### APPLICATION NOTES:

\* See MULTIFOAM 1 DATA

#### PRODUCT BENEFITS:

- \* Portable - MULTIFOAM can be used anywhere.
- \* Without C.F.C.
- \* Suitable for sealing, gap filling, caulking and insulation.
- \* No special handling or dispensing equipment is needed.
- \* MULTIFOAM 1G-FR is non toxic when cured.
- \* Cured foam can be cut to any shape and painted.

#### OTHER USES:

- \* Sealing cracks in water pipes and man holes.
- \* Encapsulating electrical parts.
- \* Filling voids to prevent moisture ingress.
- \* Packaging of fragile products.
- \* Prevention of fire propagation in buildings.
- \* Sealing basements in buildings to prevent RADON build up.

#### PACKAGING:

12 cans each containing 640 mls are packed into corrugated cardboard boxes. Each can expands to 38 Litres of foam. The PAGERIS gun is supplied in a cardboard box.

**STORAGE:**

Cans should be stored in a cool place at 18-25°C.

**SHELF LIFE:**

Normal shelf life is 12 months under normal ambient conditions.

**SAFETY ADVICE:**

- \* Contains diphenyl methane di-isocyanate.
- \* Avoid breathing vapour.
- \* Avoid contact with skin or eyes. If mixed foam comes into contact with skin or wash with water.
- \* Toxic if swallowed when wet
- \* Non toxic when cured.

**CAUTION:**

This container is pressurised, do not expose to temperatures above 50°C. Keep away from naked flames and direct sunlight. Do not pierce or burn even after use.

**TECHNICAL DATA:**

Property of MULTIFOAM 1G-FR	Temperature of test	Test Result	Units	Test Method
Colour		yellowish		
Contents		800/640	g/ml	
Expanded volume free rise*	at + 20°C	approx. 38	Litre/can	
Density		approx. 20	kg/m <sup>3</sup>	DIN 53420
Cell structure		Excessively closed cell structure approx.80%		
Tensile strength	at + 20°C	13	N/cm <sup>2</sup>	DIN 53571
	at - 20°C	20	N/cm <sup>2</sup>	DIN 53571
Elongation at break	at + 20°C	28	%	DIN 53571
	at - 20°C	11	%	DIN 53571
Shear strength		70	N/cm <sup>2</sup>	DIN 53422
Flexural strength		35	N/cm <sup>2</sup>	DIN 53422
Compression load deflection (10% compression)		8	N/cm <sup>2</sup>	DIN 53421
Water absorption		0.4	Vol. %	DIN 53428
Water vapour permeability		70	g/m <sup>2</sup> /d	DIN 53429
Anti-corrosive		yes		
Heat conductivity factor	at + 20°C	0.032	kcal/mh°C	DIN 52612
Dimensional stability	at + 50°C	+ 1.5	%	
	at + 20°C	+ 0	%	
	at - 20°C	- 0.4	%	
Minimum can temperature		5	°C	

Minimum temperature of surface		0	°C
Temperature stability of cured foam		- 40 to + 80	°C
Tack-free	at + 20°C	10	mins
Cutable	at + 20°C	30	mins
Load-bearing capacity according to thickness		4	hrs
Shelf life guarantee		12	months
*at 20C, 60% relative humidity			

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