

## Flame Extinguish 45A / Black

Flexible polyurethane system

### Key Properties

- Excellent physical properties
- Free of mercury, MOCA or TDI
- Meets UL 94V0 specification
- Meets ASTM E-1354 specification
- Contains no VOC

### Applications

- Formulated for room temperature hand-batch systems

### Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	20	100
		pbv	20	100
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.20	ca. 1.21
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 410	ca. 1,600

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 900
Gel time at 77°F (25°C)		min	10-15
Demold time at 77°F (25°C)		h	2-4

### Cured / Mechanical Properties (approximate values)

Cure: 7 days at 77°F			Cure
Aspect	visual		Black
Density	ASTM D-792	g/cm <sup>3</sup>	1.21
Shore hardness A	ASTM D-2240		40-50
Tensile strength	ASTM D-638	psi	245
Elongation at break	ASTM D-638	%	115
Tear strength	ASTM D-624	pli	40
Linear shrinkage	ASTM D-2566	in/in	0.001-0.005

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### Processing

**The processing and material temperature should be between 68-77°F (20-25°C).**

For best results, de-air the material prior to casting, then pressurize to 60 psi until cured. The resin and hardener contain a filler which will settle from solution. It is important that it must be shaken **before** each use.

To reduce demold times cast into preheated molds and place the filled tool in an oven set to 150°F (66°C).

Remove the mold from heat and allow to cool for fifteen minutes prior to demold. Post curing of this material will not advance cured properties any further than the 7 day numbers indicated.

**Agitate the hardener before use to ensure that the formula is homogeneous.**

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### Packaging

FX-8044 200 Quart Kit	2.4 lbs.
FX-8044 200 1 Gal. Kit	9.6 lbs.
FX-8044 200 5 Gal. Kit	48 lbs.
FX-8044 200 Drum Kit	540 lbs.

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### Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label.

Partly used containers should always be sealed appropriately and used up as soon as possible.

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### Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

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