

Flame Extinguish 80A

Flexible polyurethane system

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Key Properties

- Excellent physical properties
- Free of mercury, MOCA or TDI
- Meets UL94 V-0 specification
- Non Halogenated

Applications

- Formulated for room temperature hand-batch systems

Processing Properties

| | | | Resin (Isocyanate) | Hardener (Polyol) |
|--------------------------|-------------|-------------------|--------------------|-------------------|
| Mix ratio | | pbw | 44 | 100 |
| | | pbv | 41 | 100 |
| Density | ASTM D-792 | g/cm ³ | ca. 1.3 | ca. 1.22 |
| Viscosity at 77°F (25°C) | ASTM D-2393 | cP | ca. 1,500 | ca. 700 |

| | | | Mixture |
|------------------------------|-------------|-----|---------|
| Mix viscosity at 77°F (25°C) | ASTM D-2393 | cP | ca. 800 |
| 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 1: 7 days at 77°F (25°C) | | | Cure 1 |
|-------------------------------|-------------|-------------------|-------------|
| Aspect | visual | | White |
| Density | ASTM D-792 | g/cm ³ | 1.30 |
| Shore hardness A | ASTM D-2240 | | 75-85 |
| Tensile strength | ASTM D-638 | psi | 1,050 |
| Elongation at Break | ASTM D-638 | % | 150 |
| Tear strength | ASTM D-624 | pli | 135 |
| Linear shrinkage | ASTM D-2566 | in/in | 0.001-0.005 |

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 contains 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 and resin before use to ensure that the formula is homogeneous.

Packaging

| | |
|----------------------|------------|
| FX-8081-1 Quart Kit | 2.88 lbs. |
| FX-8081-1 1 Gal. Kit | 11.52 lbs. |
| FX-8081-1 5 Gal. Kit | 57.6 lbs. |
| FX-8081-1 Drum Kit | 648 lbs. |

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.

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.