

Innothane®

Product Name

InnoFR™ FX-8091
Flame Extinguish 90A

Description

FX-8091 is a flexible polyurethane formulated for room temperature hand-batch systems. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. FX-8091 meets the criteria to pass UL 94VO.

Physical Properties

Mix Ratio	Resin:Hardener (parts by weight)	55:100		
Mix Ratio	Resin:Hardener (parts by volume)	51:100		
Viscosity (cps@77°F)	Resin	320	Gel Time	12.5 ± 2.5 Minutes
	Hardener	1180	Demold Time*	3 ± 1 Hours
	Mixed	1150	Color	White
Specific Gravity (g/cc)	Resin	1.30	* Demold time is always mass dependant	
	Hardener	1.20		



Cured Properties

Cure 1 ► 7 days at 77°F

	Method	Cure 1
Hardness (shore A)	ASTM D-2240	90 ± 5
Tensile Strength (psi)	ASTM D-638	1,400
Elongation at Break	ASTM D-638	125%
Tear Strength (pli)	ASTM D-624	160
Linear Shrink (in./in.)	ASTM D-2566	.001-.005
Specific Gravity (g/cc)		1.29

Processing Notes

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. 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.

<u>Kit Weights</u>	Quart Kit	1 Gal. Kit	5 Gal. Kit	Drum Kit
	3.1 lbs.	12.4 lbs.	62 lbs.	697.5 lbs.

Safety and Handling

DO NOT USE UNTIL MSDSs HAVE BEEN READ AND UNDERSTOOD. Store containers in a dry location. Partially used containers should be blanketed with dry nitrogen to prevent moisture contamination. Moisture will react with the resin component, creating carbon dioxide gas and a possible pressure increase in the container.

SPECIFICATION WRITERS: The above values are meant to represent typical properties only. Users are encouraged to qualify products in their own laboratories prior to specification publication.

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