

# 20-2100 FR

## FLEXIBLE, FLAME-RETARDANT HIGH-PERFORMANCE URETHANE ELASTOMER SYSTEM

### DESCRIPTION:

20-2100 FR is a two component, room temperature curing, low viscosity polyurethane system for potting, casting, encapsulating and sealing electronic components and assemblies. 20-2100 FR is a flame-retardant self-extinguishing system. This product was tested in our laboratory for flame retardancy properties. According to our test results it meets the requirements of UL 94-V0. This system does not contain any MOCA or TDI and is therefore safer to use and less toxic than many urethane systems.

### FEATURES:

- Low viscosity and good air release
- Hydrolytic stability
- Very high tensile and compressive strength
- Excellent elongation and tear strength
- Outstanding vibration and thermal shock resistance
- Exceptional electrical insulation properties
- Chemical, solvent and moisture resistance

### PHYSICAL SPECIFICATIONS:

Viscosity, cps, 25°C	
Catalyzed	5,500
Mix Ratio, (Resin:Catalyst)	
By Weight	100:20
By Volume	100:23
Standard Color	Grey
Hardness, Shore A	80
Operating Temperature, °C	-55 to +130
Pot Life, 25°C, minutes	40
Specific Gravity, 25°C	1.4
Tensile Strength, psi	1,600
Thermal Conductivity, W/m- °K	.65
Coefficient of Thermal Expansion, 1/°C	15 x 10 <sup>-5</sup>
Dielectric Strength, V/mil	630
Dielectric Constant, 60 Hz	4.1
Dissipation Factor, 60 Hz	.049
Volume Resistivity, ohm-cm	3.4 x 10 <sup>13</sup>

### INSTRUCTIONS FOR USE:

1. By weight, mix 20 parts Cat.10 (Iso) to 100 parts 20-2100FR (Polyol). Volume Ratio 100:23.
2. Mix thoroughly and pour.
3. Cure 8-12 hours at room temperature or accelerate with mild heat up to 150°F.

### STORAGE, HANDLING & SAFETY:

Store both components at 75-85°F in original containers. If the containers are opened and the contents are partially used, the material left in the container should be blanketed with dry nitrogen before sealing. The products are moisture sensitive. In the original unopened quart, gallon, 5-gallon pail and 55-gallon drum containers, this product has a twelve-month shelf life.

Please read the Safety Data Sheet before using this or any other chemical.

### PACKAGING:

This product is available in quarts, 1 gallon, 5-gallon pails, and 55-gallon drum containers.

### IMPORTANT:

**EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS.** The information in this brochure is based on data obtained by our own research and is considered reliable. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. The properties given are typical values and are not intended for use in preparing specifications. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

05/2025