

SHORE A POLYURETHANES

"Dedicated to QUALITY, SERVICE, SAFETY, and INNOVATION"

# **CF-50AF A/B** 50 SHORE A POLYURETHANE ELASTOMER



Date: 08/24/2020

CF-50AF polyurethane elastomer is a 50 shore A, low odor, tough, Mercury Free system perfect for a variety of cast parts or mold making applications. Its unique ability to accept pigments ranging from light to dark colors and color stability when exposed to moderate UV light makes it a great system for prototype or production parts.

- RoHS/REACH Compliant
- Phthalate Free

Good Color Stability

Mercury Free

Low Odor

• Easy to Pigment

- Tough, Tear Resistant
- Good Rebound & Abrasion
- ELEVATED PHYSICAL PROPERTIES **TEST METHOD TEMPERATURE CURE\*** Hardness, Shore A ASTM D2240-04e1 50 ± 5 Density (g/cc) ASTM D792-00 1.077 Cubic Inches per Pound N/A 26.3 Visual White Cream Color/Appearance Tensile Strength (psi) ASTM D412-98a(2002)e1 510 Tensile Modulus (psi) ASTM D412-98a(2002)e1 420 Elongation (%) 220 ASTM D412-98a(2002)e1 Tear Strength (pli) ASTM D624-00e1 35 Shrinkage (in/in) linear ASTM D2566 @ 1" depth 0.005† Dielectric Constant, 1 MHz ASTM D150-87 5.646 Dissipation Factor, 1 MHz ASTM D150-87 0.1055 \*Note: Reported physical properties are based on test specimens cured 2-3 hours at room temperature then 16 hours at 160°F (71°C).

\*Note: Reported physical properties are based on test specimens cured 2-5 nours at room temperature then 16 nours at 160°F (71°C). \*Shrink test specimens are cured for 24 hours at room temperature and then 16 hours at 160°F (71°C).

HANDLING PROPERTIES	Part A	Part B
Mix Ratio by weight	50	100
Mix Ratio by volume	48	100
Specific Gravity @ 77°F (25°C)	1.09	1.04
Color	Pale Yellow	White
Viscosity (cps) @ 77°F (25°C) Brookfield	800	1,100
Mixed Viscosity (cps) @ 77°F (25°C) Brookfield	1,000	
Work Time, 100g mass @ 77°F (25°C)	4.5 – 5 minutes	
Gel Time	6 – 7 minutes	
Demold Time @ 77°F (25°C)	1.5 – 2.5 hours	

Properties above are typical and not for specifications.

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For more information call BJB Enterprises, Inc. (714) 734-8450 Fax (714) 734-8929 www.bjbenterprises.com

# **IMPORTANT MIXING DIRECTION:**

# It is important to remix the "A" component thoroughly prior to each use before combining with the "B" side.

## **CURE SCHEDULE/HEAT CURING:**

Most of the physical properties can be achieved in 5-7 days at 77°F (25°C). You may use your own post-cure schedule but the physical properties may vary from BJB's cure schedule of 1-3 hours at 77°F (25°C) followed by 16 hours at 160°F (71°C). Do not exceed curing temperature of 200°F (93°C).

## PREPARATION AND RELEASING:

When CF-50AF A/B is used to produce molds or parts from plaster, wood or other porous substrates, we would first recommend that they be sealed. Release agents may then be applied over the sealed surface.

## ACCESSORIES:

BJB offers silicone RTV mold making materials along with a wide range of accessory items. These include de-airing agents, pigments, mold releases, and Jiffy<sup>®</sup> Mixers. Visit BJB's website at www.bjbenterprises.com or consult a BJB representative for more information.

#### STORAGE:

Store ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	1 lb.	2 lbs.	79
Gallon Kits	4 lbs.	8 lbs.	316
5-Gallon Kits	20 lbs.	40 lbs.	1,578
55-Gallon Drum Kits	225 lbs.	450 lbs.	17,753

#### **SAFETY PRECAUTIONS:**

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

## IF CONTACT OCCURS:

- Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.
- Eyes: Immediately flush with water for at least 15 minutes. Call a physician.
- **Ingestion:** If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

#### Refer to the Material Safety Data Sheet before using this product.

**WARNING:** This product can expose you to chemicals including Styrene, which is/are known to the State of California to cause cancer. For more information, go to <u>www.P65Warnings.ca.gov</u>.



Handling Guide

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NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."