

## EC-2000 Fluoroelastomer Coating

### PRODUCT DESCRIPTION

Blome EC-2000 Fluoroelastomer Coating is a two-component, low viscosity coating ideally suited for application on horizontal or vertical surfaces by either brush or spray. Blome EC-2000 Fluoroelastomer Coating resists virtually all chemicals including nitric, sulfuric and hydrochloric acids. The product is also resistant to aliphatic, aromatic and halogenated hydrocarbons, hot oil, hot acid, hot water and heat up to 450°F. EC-2000 is impervious to ozone and U.V. light.

### GENERAL USES

Blome EC-2000 Fluoroelastomer Coating is useful for a wide variety of applications.

- Coating Expansion Joint Systems
- Lining Containment Areas
- Tank Linings
- Vertical Lift Pumps
- Chemical Processing Floors

### TYPICAL PROPERTIES

#### Base Material

|   |  |
|---|--|
| Viscosity (ASTM D-2196)                     | 600 cps                                |
| Weight Non-Volatile Matter (ASTM D-4713)    | 33%                                    |
| Volume Non-Volatile Matter (ASTM D-2697)    | 18%                                    |
| Tensile Strength (ASTM D-2370 [Post-cure])  | 900 psi                                |
| Elongation (ASTM D-2370 [Post-cure])        | 300%                                   |
| Flash Point                                 | 21°F                                   |
| Theoretical Coverage (sq. ft./mil/gallon)   | 280                                    |
| Thermal Shock (10 cycles; ambient to 350°F) | No failure                             |
| Specific Gravity                            | 1.0                                    |
| Color                                       | Black                                  |
| Operating Temperature                       | -20°F to +450°F<br>excursions to 500°F |
| Adhesion (ASTM D-4541)                      |  |
| Primed Aluminum                             | 410 psi                                |
| Steel                                       | 400 psi                                |

#### Accelerator

|                         |           |
|-------------------------|-----------|
| Color                   | Amber     |
| Odor                    | Alcoholic |
| Specific Gravity        | 0.82      |
| Flash Point (ASTM D-56) | 50°F      |

### PACKAGING & STORAGE

Blome EC-2000 Fluoroelastomer Coating base material is supplied in one-gallon containers. An accelerator is shipped in containers of a size that will permit mixing of one gallon of the base material. Store unopened components in a dry place, out of direct sunlight and protected from the elements. **KEEP CONTAINERS TIGHTLY SEALED.** Storage temperature should be 50-85°F.

## **SPECIFICATION GUIDE**

USE BLOME EC-2000 FLUOROELASTOMER COATING AS  
MANUFACTURED BY BLOME INTERNATIONAL, O' FALLON, MO  
(800) 886-3455

## **ENVIRONMENTAL CONDITIONS**

It is important that the surface to be coated be kept dry and warm. Apply only when air and surface temperatures are between 75°F and 95°F and surface is at least 5°F above dew point. Do not apply if temperature is above 95°F. Avoid applying material in direct sunlight.

## **JOBSITE STORAGE OF MATERIALS**

Proper storage of Blome International products is important to a successful application. Follow these general storage procedures:

1. Store components (Part A and Part B) unopened, at 50-85°F, out of direct sunlight and protected from the elements.
2. Keep away from heat and flame, as base material is flammable. For 24 to 48 hours just prior to use, adjust the storage temperature to 75°F- 85°F to facilitate handling.

## **SURFACE PREPARATION**

All surfaces must be clean and dry, void of oil, grease, rust, dirt or other contaminants that may inhibit proper adhesion. For applications over steel, it will be necessary to abrasive blast to a white metal finish with a 3-4-mil anchor profile. When applying Blome EC-2000 Fluoroelastomer Coating as a topcoat over Blome Sealants, sealant material must be fully cured. The surface of the cured sealant should be roughened prior to topcoating with Fluoroelastomer to promote adhesion.

## **MASKING & PROTECTION**

It is advisable to mask the surfaces adjacent to the area being coated to minimize cleanup.

## **APPLICATION EQUIPMENT**

Brush or spray methods can be used.

## **WORKING TIME**

Once mixed, the liquid system has a useful life of approximately 8 hours at 75°F. Stir contents frequently and keep container sealed whenever not in use.

## **MIXING AND APPLICATION**

Slowly add Accelerator to the base material and mix thoroughly, scraping both the sides and bottom of the container. Avoid any mixing method which introduces substantial amounts of air into the liquid. Allow 10 minutes for the digestive period. It is important to minimize air exposure of the accelerated material; air exposure causes evaporation of the solvent and reduces the processibility of the accelerated material. The recommended thickness of Blome EC-2000 Fluoroelastomer Coating for use as a topcoat for other Blome products is a minimum dry film thickness of 8-10 mils. This can be achieved with two coats. For other applications consult Blome International Technical Service.

## **CURING (NON-IMMERSION)**

Allow a minimum of 60 minutes for the solvent to evaporate for successive coats. Allow final coat to cure 48 hours before placing in service.

**POST CURING (IMMERSION)**

After last coat has been applied and allowed to dry 48 hours, post curing can be achieved by adding dry indirect heat (250°F) for one hour. It is very important to step cure the coating i.e., increase temperature 50°F every 30 minutes. Note: rapid increase of temperature will result in blistering of the coating

**COVERAGE**

| FOR         | APPLY                                 | COVERAGE PER GALLON            |
|-------------|---------------------------------------|--------------------------------|
| 10 DRY MILS | 44-55 WET FILM THICKNESS IN TWO COATS | 23 SQ.FT. PER GALLON AT 10 DFT |

**CLEAN-UP**

Hand tools and equipment may be cleaned with xylene or MEK after use. Cured material may be difficult to remove.

**CAUTION**

Blome EC-2000 may cause skin irritation with prolonged or repeated contact. Avoid skin contact and follow the safety data sheet, which is available for each component.

**WARRANTY**

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANT ABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.

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