



# Chemline 7446FR

## Class 1 Fire Rated Structural Polyurethane Hybrid Resin

### Description

**Chemline 7446FR** is a 1:1, fast-set, spray applied two-component fire-retardant polyurethane coating. It is 100% solids and contains zero VOCs. When cured, it is highlighted by:

- ✓ Passes ASTM Designation E84: "Standard Method of Test for Surface Burning Characteristics of Building Materials"
- ✓ High flexural modulus and will maintain its shape under pressure without solid backing
- ✓ Excellent impact resistance for protection from handling
- ✓ Formulated to flow into the small crevices of intricate mold designs, imparting excellent mold surface replication

### Application Recommendations

**Chemline 7446FR** adheres extremely well to EPS foam and steel. It is typically applied to EPS foam as a protective hardcoat encapsulant. It should be applied through a two component, heated, high pressure proportioning unit (1A:1B) capable of dynamic spray pressures of 2000-2400 psi.

For further detail consult the **Chemline 7446FR** Material Standard and seek a Chemline Technical Representative for application training.

### Packaging, Storage & Shelf Life

**Chemline 7446FR** is available in 55 gallon drums and 275 gallon totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

### Safety

**Chemline 7446FR** is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or fresh air hood. Spraying indoors requires forced ventilation. Be sure to read MSDS in its entirety prior to use.

Revised 04/2017

### Application Properties

Property	Value
Cure to touch	3 seconds
Demold time	10 minutes

### Physical Properties

Property	Value
Hardness, Shore D, D-2240	70 D
Flexural modulus, D-729	> 80000 psi
Tensile strength, D-412	> 4500 psi
Elongation, D-412	25 %
Impact strength (direct), C-14	> 50 lbs
Flexibility (180° bend over 1/2 inch mandrel), D-522	Pass at 40 mils
Heat sag resistance, ASTM 3769	
150°F	0.03 inches
200°F	0.09 inches
250°F	0.20 inches

\*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Chemline, Inc. • 5151 Natural Bridge Rd. • St. Louis, MO 63115 • Phone: (314) 664 - 2230

• 19500 S. Alameda St. • Los Angeles, CA 90221 • Phone: (310) 764 - 0820

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Chemline, Inc. hereunder are provided gratis and Chemline assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at your risk.