



Chemline 7001FR

Class 1 Fire Rated Polyurethane Hardcoat Encapsulant for EPS Foam

Description

Chemline 7001FR is a 1:1, fast-set, spray applied two-component 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"
- √ No Settling issues - Unlike other similar products it wont settle out and cause spray issues
- √ Optimized balance of impact resistance, hardness and flexibility
- √ Ease of use and levels out to leave a smooth, glossy finish

Application Recommendations

Chemline 7001FR adheres extremely well to EPS foam. 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 7001FR** Material Standard and seek a Chemline Technical Representative for application training.

Packaging, Storage & Shelf Life

Chemline 7001FR 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 7001FR 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.

Application Properties

Property	Value
Cure to touch	45 seconds
Cure to handle	5 minutes
Recoat window	30 minutes

Physical Properties

Property	Value
Hardness, Shore D, D-2240	68 D
Flexural modulus, D-729	> 50000 psi
Tensile strength, D-412	> 3000 psi
Elongation, D-412	35 %
Impact strength (direct), C-14	> 85 lbs
Flexibility (180° bend over 1/8 inch mandrel), D-522	Pass at 40 mils

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

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