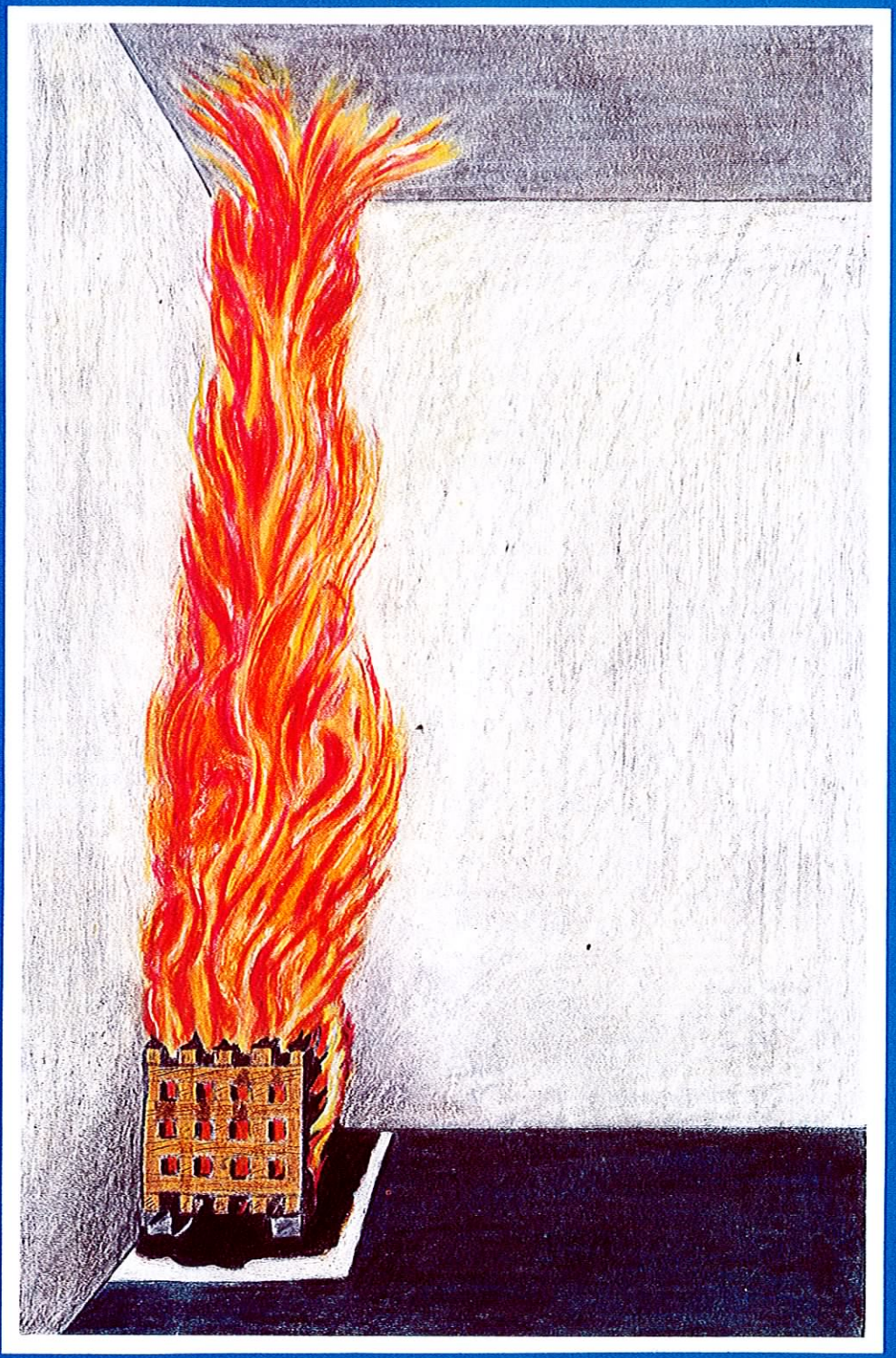
FOAM SAFE



SPECIALTY PRODUCTS, INC.

FOAM SAFE
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PHYSICAL AND MECHANICAL PROPERTIES OF FOAM SAFE THERMAL BARRIER FOR PLASTIC FOAMS

PROPERTY	TEST METHOD	VALUES
Dry Density	Underwriters' Laboratories, Inc.	416 kg/m³ (26 Lbs. per Cu. Ft.)
Wet Density	Underwriters' Laboratories, Inc.	929 kg/m³ (58 Lbs. per Cu. Ft.)
Dry Wgt. @ 13 mm (1/2") Thick	Underwriters' Laboratories, Inc.	4.34 kg/m² (.89 Lbs. per Sq. Ft.)
Tensile Strength Applied to plastic foam	Northwest Laboratories Seattle, Washington	2880 kg/m² (590 Lbs. per Sq. Ft.)
Indentation Strength Applied to plastic foam	Northwest Laboratories Seattle, Washington	745 kPa (108 Lbs. per Sq. Inch) 75 921 kg/m² (15,500 Lbs. per Sq. Ft.) To indent coating 1.6 mm (1/16")
Shear Strength Applied to plastic foam	Northwest Laboratories Seattle, Washington	13 148 kg/m² (2693 Lbs. per Sq. Ft.)
Freeze/Thaw *FOAM SAFE* coating applied to plastic foam	Pacific Testing Laboratories Seattle, Washington	After 20 Cycles, no visual or physical change. No dimensional change.
"K" Factor *FOAM SAFE* coating only	Dynatech	"K"=.061{W/(m·K)} (.425) "R"= 2.35 Per inch of *FOAM SAFE* coating
Burning Characteristics: *FOAM SAFE* coating only- applied to cement asbestos board	ASTM E-84 Tunnel Furnace Test Method Hardwood Plywood Mfrs. Assn. Reston, Virginia	Flamespread 0 Fuel Contributed 0 Smoke Developed 0
Surface Burning Characteristics: *FOME SAFE* Coating Only 13 mm (1/2") thick applied to cement asbestos board	ASTM E-84 Tunnel Furnace Test method Underwriters' Laboratories, Inc. North Brook, Illinois	Flamespread 0 Fuel Contributed 0 Smoke Developed 0
Burning Characteristics: *FOAM SAFE* Coating applied 13 mm (1/2") thick over 101 mm (4") Plastic foam insulation (Both polyurethane and Polystyrene foams were tested)	Underwriters' Laboratories, Inc. Enclosed Room Corner Fire Test U.L. Subject 1715	*FOAM SAFE* U.L. Listed as a Cementitous mixture for wall/ceiling construction with regard to flame propagation and damageability under specified room fire conditions only. Report R11944
Burning Characteristics: *FOAM SAFE* coating applied to 101 mm (4") plastic foam	I.C.B.O. Enclosed Room Corner Test Southwest Research Institute San Antonio, Texas	Findings: That *FOAM SAFE* complies as a thermal barrier under Section 1712 (C) of the 1988 Uniform building code, subject to the conclusions in I.C.B.O. Report No.4022

Copies of above test reports are available on request. Effective date Dec. 31, 1993

PRODUCT DESCRIPTION:

FOAM SAFE is a cementitous thermal barrier coating for plastic foam insulations. It is factory precision mixed in 18 kg (40 lbs.) bags to which potable water is added. *FOAM SAFE* is I.C.B.O. approved. Recommendation No. 4022, and is Underwriters' Laboratories Listed Report 11944.

MIXING INSTRUCTIONS:

Clean equipment is absolutely essential for mixing, pumping, and spraying *FOAM SAFE*.

1. Weigh or measure approximately 19-26 L (5-7 gallons) of potable water per 18 kg (40-lbs) bag of *FOAM SAFE* and place in mixer. If 4 bags are used in one batch, approximately 83 L (22 gallons) of water should be placed in mixer. Actual amount of water required may vary with hardness of water used, and length of hose through which material is to be pumped. Recommended amounts of water are based on soft water found in Western Washington, and on 15 m (50') of hose length.

2. Add dry *FOAM SAFE* mix directly from bag to mixer. Mix 2 to 3 minutes.

   NOTE: Do not over-mix as this will increase the density and decrease the yield when sprayed.

3. Proceed to spray immediately. The yield should be 3.7 - 4.6 m^2 (40 - 50 sq.ft.) per bag, or 18.6 m^2 (200 + sq.ft.) per (4) bag batch, 13 mm (1/2") thick.

CAUTION: Do not let *FOAM SAFE* material become hard on or in equipment as it is very difficult to remove once it has set.

Do not apply *FOAM SAFE* when temperature is below 4.4 °C (40 °F).

After *FOAM SAFE* has been sprayed and taken the first set, it can be brushed, trowelled, floated, rolled, or texturized in a wide variety of finishes. To seal the surface or achieve a desired color use Masonry paint. It can be brushed or sprayed to *FOAM SAFE* thermal barrier coating after curing.

NON-WARRANTY STATEMENT:

The information herein is believed to be reliable, but unknown risks may be present. Specialty Products, Inc. warrants only that the material shall be of merchantable quality; this warranty is in lieu of all other written or unwritten, expressed or implied warranties, and Specialty Products, Inc. expressly disclaims any warranty for a particular purpose, or freedom from patent infringement. Accordingly, Buyer assumes all risks whatsoever as to the use of these materials and Buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited to the purchase price of the materials. Failure to strictly adhere to recommended procedure shall relieve Specialty Products, Inc. of all liability with respect to the materials or the use thereof.

NOTE: See *FOAM SAFE* instructions for detailed application information.

FOAM SAFE APPLICATIONS

FOAM SAFE thermal barrier can be used in any application wherein it is desirable to provide a protective thermal barrier over exposed plastic foam insulation as required by the Uniform Building Code. Typical constructions which would require this material would include:

- Controlled atmosphere fruit storage warehouses
- Fruit and vegetable cold storage warehouses
- Potato storage warehouses
- Freezers
- Breweries
- Restaurants
- Sports arenas
- Swimming pools
- Water treatment plants
- Fire stations
- Seed storage and processing
- Fish processing plants
- Aircraft hangers
- Furniture manufacturing
- Roof decks
- One coat stucco and/or plaster
- Interior finish for boats and ships- over plastic foam insulation

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