



## Elastomeric Roofing Systems, Inc

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## ERFoam 502772

### Product Data Specification

#### TYPICAL PHYSICAL PROPERTIES

Density	ASTM D-1622	
Nominal		2.77 lb/cf
Compressive Strength	ASTM D-1621	
Parallel		46.8 psi
Tensile Strength	ASTM D-1623	
		67.2 psi
Water Vapor Transmission	ASTM E-96	
		3.0 Perm Inch
Closed Cell Content	ASTM D-2856	
		>90%
Aged Insulation Values	ASTM C-518	
K Factor		0.160 BTU/(Hr.ft <sup>2</sup> .°F)
R Value		6.20 (Hr.ft <sup>2</sup> .°F)/BTU
Fire Listings:		
Combustible Deck (UL 790)		Class B
Non Combustible Deck (UL 790)		Class A
Spread of Flame	ASTM E-84	40
Viscosity, cps at 70° F		
Component A		175-250
Component B		500-650
Dimensional Stability	ASTM D-2126	
158°F 100% Humidity		<1% change
200°F		<1% change
-20°F		<1% change

\*This data reflects the performance of these foams by a laboratory scale burning test, and the results are not to be considered or used as a fire hazard classification and are not intended to reflect hazards presented by this or any other material under actual fire conditions.

#### DESCRIPTION

ER Foam 502772 is a two-component polyurethane spray foam made by combining an Isocyanate (A) component with a Polyol Resin (B) component for roof insulation applications. ER Foam 502772 is a zero-ODP (Ozone Depleting Potential) system. This medium density foam has good compressive strength and is designed to produce a surface texture, which is especially smooth and compatible with ERSystems coatings. ER Foam 502772 is designed to function at lower viscosities making it easier to handle and produce less stress on equipment.

#### USES

ER Foam 502772 is used as the insulation portion of spray-in-place foam and coating roofing systems. ER Foam 502772 and ERSystems coatings provide a seamless, lightweight, highly flexible thermal barrier to protect a building. Systems may be tailored in design to provide the desired R-value, apply to a wide variety of substrates, and adapt to any shape or slope of roof.

#### PACKAGING

Available as 55-gallon drums of Component A and Component B in a set.

#### APPLICATION

Mix ratio is 1 Part A to 1 Part B.

Application may be by ERSpray Foamer or by any of the conventional plural component processing machinery. Foam should be sprayed at a minimum gun pressure of 1000 psi. Call ERSystems Technical Service for details. Typical application is with pre-heaters at 120 ° F to 130 ° F and hose temperatures at 110 ° F to 120 ° F. Be sure to select the appropriate foam speed for current ambient conditions. Use Summer (S) for temperatures between 60 - 90 ° F, Winter (W) for temperatures between 50 - 75 ° F, and Cold Weather (CW) for temperatures between 40 and 50 ° F.

#### SURFACE PREPARATION

Surfaces must be clean, dry, secure and free of debris. BUR, metal, concrete and wood are typical surfaces to which ER Foam 502772 is applied. See System Specification for details.

#### APPLICATION OF FOAM

ER Foam 502772 shall be applied in 1" to 1 1/2" passes (1/2" minimum per the SPFD foam application guidelines). Application and analysis of a small test patch will provide an indication of: amount of adhesion, quality of surface preparation, need for a primer, temperature and dew point relationships, equipment function, etc. If inexperienced at foam application contact

ERSystems, read all training information etc., and ask for guidance prior to starting the application.

### **COATING**

ER Foam 502772 shall be coated within 48 hours of initial application. Erathane 300 (Polyurethane coating), Eraguard 1000 or Eraguard foam (Acrylic coating), and Eraguard 4000 (Silicone coating) are all recommended with and compatible with ER Foam 902772.

### **HANDLING & STORAGE**

Keep containers closed and store in well ventilated cool dry place. Outage of container should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Contamination by moisture or basic compounds can cause dangerous pressure buildup in a closed container. Store between 65° F and 75° F. Protect from freezing. Use only with ventilation that will keep the vapor concentration below the TLV ceiling limit of 0.02 PPM.

### **CAUTION!!!!**

**FIRST AID:** In case of contact, immediately flush eyes with running water for at least 15 minutes. Call a physician immediately. Wash affected skin area with soap and water. Remove all contaminated clothing and shoes. Wash clothing before re-use. Discard contaminated shoes. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult, qualified personnel may give oxygen. Call a physician immediately. If swallowed, give large amounts of water to dilute. If vomiting occurs, give more water.

**ENVIRONMENTAL HAZARD:** PMDI in Component A may cause pollution. Do not discharge into lakes, streams, ponds or public waters. For guidance, contact your regional office of the EPA.

**DISPOSAL:** Spilled material, unused contents and empty containers should be neutralized and disposed of in accordance with local, state and federal regulations.

**IN CASE OF FIRE:** Use water spray, foam or CO<sub>2</sub>. Firefighters should be equipped with self-contained breathing apparatus and turnout gear for protection against PMDI vapors and toxic decomposition products. Avoid water contamination in closed container or confined areas (CO<sub>2</sub> - evolved).

**IN CASE OF SPILLS OR LEAKS:** Wear plastic  
DS0056-D

protective clothing, rubber gloves and boots, goggles and self-contained breathing apparatus. Cover spill with an inert absorbent material (sand, earth). Follow disposal instruction per industry standards or contact INFOTRAC. Do not place spilled material in closed container because reaction with moisture may cause dangerous pressure buildup.

**ATTENTION:** This container may be unsafe when emptied because of the presence of product residues (vapor, liquid or solid), therefore, all labeled precautions must be observed. Component A contains 4,4-Diphenylmethane Diisocyanate (MDI) (CAS 101-68-8).

**WARNINGS:** Vapor harmful below odor threshold and should not be breathed by individuals subject to bronchial asthma. In certain susceptible individuals sensitization to vapor or mist may occur. Do not get into eyes, on skin, or clothing. Keep containers closed. Wash thoroughly after handling. Wear splash goggles, rubber gloves, respiratory protection (MSHA/NIOSH), protective plastic clothing and rubber boots.

DO NOT LEAVE FOAM EXPOSED OR UNPROTECTED. Polyurethane foam or isocyanurate foam products manufactured or produced from these chemicals present a serious fire hazard if used or allowed to remain exposed or unprotected. Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any of these materials should carefully determine whether there is a potential fire hazard associated with such product in a specific usage and utilize all appropriate precautionary and safety measures as outlined in local, state and federal regulations.

### **WARRANTY**

IMPORTANT: While the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties.

ERSystems' sole warranty is that the product will meet the sales specification at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**PRIOR TO USE OF THIS MATERIAL, READ ALL  
APPROPRIATE MATERIAL SAFETY DATA SHEETS.**