



Elastomeric Roofing Systems, Inc

6900 Bleck Dr. Rockford, MN 55373
 800.403.7747 -or- 763.565.6900 fax: 763.565.6901

ERSYSTEMS.COM

email: ersinfo@ersystems.com

ER Foam 502072
 Product Data Sheet

TYPICAL PHYSICAL PROPERTIES

(Meets current ASTM C-1029 standards as tested by independent third party lab)

Density	ASTM D-1622	2.0 lb/cf min.
Compressive Strength	ASTM D-1621	
Parallel		22 psi
Tensile Strength	ASTM D-1623	28 psi
Closed Cell Content	ASTM D-2856	>90% min.
R-Value/in.	ASTM C-518	6.1 initial
Thermal Conductivity	K-Factor - Initial	
ASTM C-518		0.165
Spread of Flame	ASTM E-84	25
Smoke Development	ASTM E-84	350
(4.0" sample)		
Viscosity, cps @ 70° F		
Component A		175 - 500
Component B		440
Water Vapor Transmission		
ASTM E-96	Less Than one @ 2"	
Dimensional Stability	ASTM D-2126	
158°F		<12% 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 502072 is a two-component polyurethane spray foam made by combining an Isocyanate (A) component with a polyol based (B) Component. The B Component has zero Ozone Depletion Potential (ODP) and a low Global Warming Potential (GWP). In addition, it is not considered a Volatile Organic Compound (VOC) in the US. This low-density foam exhibits high yield, great strength, and ease of application.

USES

ER Foam 502072 is used to insulate foundations, stud

walls, floor joist, and all wall openings in residential or commercial construction. The lightweight, seamless air barrier provides high R-value plus tremendous structural strength.

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 any of the conventional plural component processing machinery. Call ERSystems Technical Service for details. Typical application is with pre-heaters at 130° F and hose temperatures at 130° F. Be sure to select the appropriate foam speed for current ambient conditions. ER Foam 502072 is produced in multiples speeds and has performed successfully when sprayed to dry, clean wood substrates down to 30 degrees.

SURFACE PREPARATION

Surfaces must be clean, dry (less than 19% moisture content), secure and free of debris. Metal, concrete and wood are typical surfaces to which ER Foam 502072 is applied.

APPLICATION OF FOAM

ER Foam 502072 shall be applied in 3/4" to 2" passes (1/2" minimum per the SPFD foam application guidelines). Foam should be sprayed at a minimum gun pressure of 1000 psi while spraying.

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.

Interior Foam applications may require specific protection against fire and flame spread. In interior applications use only with adequate ventilation and fresh air respirators.

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. Shelf life of unopened, sealed containers is approximately three months.

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 CO₂. 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 (CO₂ - evolved).

IN CASE OF SPILLS OR LEAKS: Wear plastic 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.