



# Chemical Design Corporation

## PRODUCT DATA SHEET

### CHEM-COAT 9-711-1 QWIK FOAM

### QWIK SPRAY FOAM SYSTEM

#### DESCRIPTION:

CHEM-COAT 9-711-1 is a two component, Qwik spray applied nominal 4-pound rigid polyurethane foam insulation. It is intended for pneumatic static mix and external atomization. This system has the benefit of precise ratio control over froth systems. Pneumatic dispense allows for accurate spray control and a very flat, smooth foam surface. Material and substrate temperatures and applied thickness will vary yield.

#### USAGE:

The primary use, in conjunction with CHEM-COAT 9-540-1, is the portable repair of spray foam roof blisters, delaminating of foam roofs, cracks and test cut areas and repairing modifications to existing foam roofs. It is also beneficial for small roofs, leveling of pond areas, details and difficult to reach areas.

CHEM-COAT 9-711-1 can be used for repair of freezers, hot tubs, HVAC and piping insulation, infiltration and radon gas control and around penetration and difficult to reach areas. It can also be used for insulating trailers or repairs to insulated trailers, insulation for mobile home roofs and sub-floors and sealing and insulating of house sills, walls and around windows and doors. It is also beneficial for cavity fill, structural fill for thermoplastic parts and concrete block cavity fill. When used interiorly where human occupancy is eminent, a 15-minute fire barrier must be used over the foam.

#### PHYSICAL PROPERTIES\*

##### NOMINAL DENSITY, SPRAYED:

ASTM D-1622  
Pcf 3.6 to 4.2

##### COMPRESSIVE STRENGTH, @ % Deflection

@ % Yield  
ASTM D-1621  
Parallel (psi): 50 to 65 @ 6%

##### CLOSED CELL CONTENT:

ASTM D-2856 85 -95%

##### THERMAL CONDUCTIVITY, BTU/hr ft<sup>2</sup> °F/in FACTOR @ 77°F:

ASTM C-518  
Initial: 0.33

##### HUMID AGING, % VOLUME CHANGE, 158°F (70°C), 100% R.H.:

ASTM D-2126  
28 Days +0.8 to 1.3%

##### COLD AGING, % VOLUME CHANGE, -20°F (-29°C):

ASTM D-2126  
5 Days -0.2 to .35%

##### DRY AGING, % VOLUME CHANGE, 158°F (70°C):

ASTM D-2126  
28 Days +.2 to .4%

##### FIRE RESISTANCE:

None.  
Contact Chemical Design Corp. for details.

#### LIQUID COMPONENT PROPERTIES

##### VISCOSITY @20°C:

ASTM D-1638  
Iso Component: 85-110 cps  
Poly Component: 360-380 cps

##### SPECIFIC GRAVITY @ 20°C:

ASTM D-1638  
Iso Component: 1.23  
Poly Component: 1.03

#### APPLICATION

Apply CHEM-COAT 9-711-1 using a Qwik Spray pneumatic spray dual cartridge gun. Ensure that the compressed air source is dry,

and can provide a constant pressure of 110 psi. Use the static mixer with the air atomizer tip supplied with your cartridges. With 110 psi inlet pressure, set fluid flow to half and airflow to the atomizer at 20 psi. Start spraying on a piece of cardboard or other disposable surface until an acceptable spray pattern is achieved. When a spray pattern has been achieved, this should take 2-3 seconds; fan over to the object, working with even passes, building coats to desired thickness. Visually monitor material levels and cease coating work just prior to emptying cartridges to ensure that an even ratio of the material is applied to the surface. Cartridges should be approximately 77°F before using.

#### SPRAY REACTIVITY:

12-15 Seconds Tack Free

#### CORPORATE OFFICE: 2230 Commerce Drive – Loganville, GA 30052 – (800) 578-8555 – FAX (770) 554-2499

THIS INFORMATION AND TECHNICAL ADVICE PROVIDED HEREIN ARE BELIEVED TO BE RELIABLE AND ACCURATE TO THE BEST KNOWLEDGE OF CHEMICAL DESIGN CORP., AS BASED ON TESTS AND SHOULD SERVE ONLY AS A RECOMMENDATION. AS THE MANUFACTURER, VOLATILE FREE, INC MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE OR A PARTICULAR PURPOSE FOR THE PRODUCT. VOLATILE FREE, INC MAKES NO REPRESENTATIONS OR WARRANTIES AS TO THE RESULTS OF THE USE OF THE PRODUCT AND ASSUMES NO OBLIGATION OR LIABILITY IN CONNECTION THEREWITH. CHEMICAL DESIGN CORP. IS NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY SORT FROM USE OF THIS PRODUCT. THE INFORMATION PROVIDED HEREIN IS SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE. INFORMATION CHANGES MAY INCLUDE, BUT ARE NOT LIMITED TO, COMMERCIAL AND TECHNICAL CHANGES, CHANGES IN PRICING, PHYSICAL CHARACTERISTICS AND PACKAGING.