



# R-VALUE FOAM

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## Technical Data Sheet for **Spray Foam RVF-200**

### DESCRIPTION

**SF-RVF-200** is a two component, closed cell polyurethane spray foam system, formulated with no CFC or HCFCs. The in-place density is 1.7 to 3.2 pcf as specified. Low viscosity and 1:1 volume ratio provide for easy processing. This formulation is a custom blend designed for the unique requirements of pipeline applications.

### RECOMMENDED USES

**SF-RVF-200** is designed for use in pipeline applications where excellent compression and low exotherm are desired. It has uniform cell structure and excellent dimensional stability.

### APPLICATIONS

- Challenging pipeline environments for various pipe sizes being installed in difficult terrain and conditions.
- Erosion Control
- Backfill Protection

### PHYSICAL PROPERTIES

DENSITIES	1.8PCF	2.0PCF	2.5PCF	3.0PCF
<i>PROPERTY</i>				
Density Pcf In-Place	1.7-1.8	1.9-2.1	2.4-2.6	2.9-3.2
Compressive Strength	25 psi	28 psi	36 psi	48 psi
Shear Strength	22 psi	24 psi	32 psi	39 psi
Perms/ Inch	2.5	2.8	2.3	2.0

### REACTIVITY

	WINTER	REGULAR	SUMMER
Cream Time	2-3 Seconds	3-5 Seconds	5-7 Seconds
Rise Time	6-10 Seconds	10-18 Seconds	18-24 Seconds
Tack Free	12-15	14-16	16-18
Cure Time	4 Hours	4 Hours	4 Hours

### LIQUID COMPONENT PROPERTIES

	COMPONENT A PREPOLYMER	COMPONENT B RESIN
Color	Dark Brown	Dark Amber/ Dark Brown
Specific Gravity	1.27	1.08
Weight/ Gallon	10.5 lb.	9.0 lb.
Viscosity - Brookfield	300 cps	350 – 450 cps
Mixing Ratio By Volume	100	100

*Note: The above values are average values obtained from laboratory experiments and should serve only as guidelines. Free rise core density should not be confused with overall density. Overall densities are always higher than free rise core densities and take into account skin formation, thickness of application, environmental conditions, etc.*

## SF-RVF-200 – APPLICATION INFORMATION

### STORAGE/SHELF LIFE

Components “A” and “B” should be stored in their original, unopened containers at temperatures between 55°F and 85°F. Shelf life of unopened, sealed containers is approximately three months under those storage conditions.

### EQUIPMENT

Recommended proportioning equipment is manufactured by Gusmer, Binks, Graco, or Glas-Craft. Mixing and ratio by volume is 50 parts A to 50 parts B (1:1). Equipment shall be of the heated, airless type, capable of maintaining 110°F to 140°F at the spray gun. Optimum spraying temperature will vary with type of equipment used, substrate, ambient temperature, and humidity. For proper use of this R-Value Foam insulating material or any polyurethane foam, please refer to the R-Value Foam application information and any of the following codes or guidelines:

- *API Fire Safety Guidelines for Use of Rigid Polyurethane and Polyisocyanurate Foam Insulation in Building Construction (AX230)*
- *ICC, International Building Code, (IBC), Section 2603*
- *International Residential Code, (IRC), Section R314*

## SF-RVF-200 - HEALTH & SAFETY

### GENERAL INSTRUCTIONS

Before the containers are opened, all safety instructions should be read and understood by all personnel who will come into contact with the materials. If the safety instructions are lost or otherwise not available, please contact R-Value Foam for a replacement.

**WARNING:** *Polyurethane foam may present a fire risk in certain applications if exposed to fire or excessive heat, e.g. welding and cutting torches. The use of polyurethane in interior applications on walls or ceilings presents an unreasonable fire risk, unless the foam is protected by an approved fire-resistive fifteen-minute thermal barrier.*

**PROTECTIVE EQUIPMENT** The “A” component is a polymeric isocyanate and may be sensitizing, particularly from the standpoint of **VAPOR INHALATION**. The best form of protection against sensitizing vapors in the workplace is a **FRESH AIR SUPPLY**. Several manufacturers, including 3M company and MSA make full face fresh air masks. For minimum protection, organic vapor canister style respirators shall be worn. To prevent contact with the product, wear fabric coveralls and fabric gloves, full-face mask and OSHA approved protective goggles.

**VAPOR INHALATION** problems are characterized by coughing, shortness of breath or tightness of the chest. Anyone exhibiting these symptoms shall be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, **SUMMON “EMERGENCY TRAINED” MEDICAL ATTENTION IMMEDIATELY.**

**SKIN CONTACT** with liquid components can result in a rash or other irritation. Wash the affected area with water. Wipe residual liquid with a clean soft cloth followed by washing with soap and water. If a rash or other irritation develops, **SEE A PHYSICIAN.**

**EYE CONTACT** with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. **SUMMON “EMERGENCY TRAINED” MEDICAL ATTENTION IMMEDIATELY.**

### WARNING:

Polyurethane products manufactured or produced from these chemicals may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors which are controlled or influenced by the manufacturer, applicator or production process. Each person, firm, or corporation engaged in the manufacture, production, application, installation or use of any polyurethane materials should carefully determine whether there is a potential fire hazard associated with such specified usage, and utilize all appropriate precautionary and safety measures as outlined in Local, State and Federal regulations governing the manufacture of products or the construction and/or renovation of commercial or residential structures.

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