



## gs 1000

### 1. description

gs 1000 is the most advanced development in roofing bitumens available today. Compounded with high levels of Shell Kraton G rubber [SEBS (styrene-ethylene-butylene-styrene)] and top quality asphalts, gs 1000 represents the state-of-the-art in roofing bitumen technology. This product conforms to the requirements of ASTM D 6152.

### 2. recommended uses

- a. As a high performance insulation adhesive over approved substrates.
- b. As an adhesive for high performance base sheet applications.
- c. Combines with improved membrane technology to form high performance, elastomeric built-up roof assemblies.
- d. As a "state-of-the-art" surfacing bitumen.
- e. Designed to adhere high performance elastomeric membrane flashing systems.

### 3. benefits

- a. Conforms to the requirements set forth in ASTM D6152 -Standard Specification for SEBS-Modified Mopping Asphalt Used in Roofing.
- b. Excellent elongation and low temperature flexibility reduce the potential of splitting.
- c. Superior adhesion properties assure laminate strength, providing greater resistance to wind uplift.
- d. Proprietary formula using Shell Kraton G provides the added value of increased roof longevity.
- e. Classified by Underwriters Laboratories, Inc.® as to an external fire exposure only.
- f. Contains no asbestos.
- g. Approved by Factory Mutual Research Corporation per FM Standard 4470, I(A)-90.
- h. Approved by the Metropolitan Dade County Building Code Compliance Department and Building Code Committee.

### 4. physical features

property	typical values	test method
softening point (°F)	195 - 215	D6152
softening point change, after heat exposure	+ 1(°F)	D6152
flash point (°F)	550 or greater	D6152
penetration	20 - 30 units, 25 °C	D6152
Penetration change, after heat exposure	- 1 unit, 25 °C	D6152
ductility	35 cm, 25 °C	D113



## 4. physical features (continued)

property	typical values	test method
penetration index	3.5	calculated value
tensile strength	135 psi	D412
tensile elongation (%)	1100 or greater	D6152
elastic recovery	Pass	D6152
solubility in TCE	99.92	D6152
low temperature flexibility (°F)	-20	D3111
density	1.0 or greater	D70
fire resistance	Pass. Class A	E108/UL 790
asbestos content (%)	0	EPA/600/M4-82-020
compatibility with type VI glass ply sheet and coated glass, polyester and glass/polyester sheets	Oliensis test, no exudate	D1370
<b>average T-peel adhesion strength to felt coating after conditioning (lbf / in)</b>		
24 hrs @ 73°F	12.0	D1876
7 days @ 73°F	12.8	D1876
30 days @ 73°F	11.1	D1876
6 months @ 73°F	10.5	D1876
1 year @ 73°F	9.2	D1876