



## (The Gold Series) Plural, 1.8WB pound Insulating Spray Foam

### DESCRIPTION

**SPEC Technologies 1.8WB GOLD** is an **WATERBLOWN**, liquid spray system which cures to a low density rigid polyurethane insulation developed for application to sidewalls, cavity fill and tanks at substrate temperatures as low as minus 40°F (4°C). It is available in three reactivity variations to meet a broad range of surface temperature conditions.

**SPEC Technologies 1.8WB GOLD** has undergone preliminary testing and should meet a Class I Fire Rating standard. Polyurethane foam used on the interior of a structure intended for human occupation must be protected by an approved 15 minute thermal barrier. When used on the exterior of structures and on structures that are not intended for human occupation these restrictions do not apply. Please check local codes for further information. When exposed to open flame, cured polyurethane foam may present a serious fire hazard.

### Product Description

**SPEC Technologies 1.8WB GOLD** is a fast set polyurethane spray insulation system. **SPEC Technologies 1.8WB GOLD** is a premium construction product, and is environmentally friendly. It exhibits superior insulation properties compared to other conventional insulation materials. **SPEC Technologies 1.8WB GOLD** meets the highest flame retardancy standards for construction materials. **SPEC Technologies 1.8WB GOLD** is easy to apply and its fast reaction time allows the contractor to complete difficult jobs quickly.

### Uses

**SPEC Technologies 1.8WB GOLD** is a superior insulation material designed specifically for residential and commercial construction projects. **SPEC Technologies 1.8WB GOLD** is flexible, accommodating movement of the substrate. **SPEC Technologies 1.8WB GOLD** is designed interior applications only. **SPEC Technologies 1.8WB GOLD** is recommended for new construction and retrofit of existing structures.

### Advantages

Fast set, allows quick job turn-around. High yield, contains no Ozone Depleting substances. Seamless, expands to fill voids and prevents air movement. Flexible, allows for some building movement. Excellent Thermal Stability, and dimensional stability, will not shrink under adverse weather conditions. Odorless, No Toxic Vapors after application, Class I Fire Retardancy rating.

### Limitations

**SPEC Technologies 1.8WB GOLD** should not be used for exterior applications as the sunlight will rapidly degrade foam. It should not be used where foam will stay submerged in water. Applicable codes must be strictly adhered to.

### Typical Liquid Properties

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>TYPICAL VALUE</u>
Viscosity "A"	ASTM D-2196	200-250 cps @ 77°F
Viscosity "B"	ASTM D-2196	350-400 cps @ 77°F
Weight Per Gallon "A"	ASTM D-1475	10.20 LBS/Gallon
Weight Per Gallon "B"	ASTM D-1475	9.80 LBS/Gallon

**Typical Reactivity**

Cream time

3-4 seconds @ 25°C

Rise Time

12-16 seconds @ 25°C

**Typical Physical Properties**

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>TYPICAL VALUE</u>
Density	ASTM D-1622	1.80±0.10 Lbs/ft <sup>3</sup>
k-Factor	ASTM C-177	.227 BTU in/°F
R-Value	ASTM C-518	6.8 °F/BTU in
Flame Spread Index	ASTM E-84-1"	<20
Smoke Generation Index	ASTM E-84-1'	<200
Water Vapor Transmission	ASTM E96-95	2.55 Perm Inch
Dimensional Stability	ASTM D-2126-94	00.3 % 28 Day, 158°F, 97% RH
Service Temp Range		-40 to 200 degrees F
Water Absorbtion Rate		0.055 lbs/ sq ft, 2" head
Tensile Strength	ASTM D-1623-78	27 PSI
Parallel to rise	C-273-94	27 PSI
Closed Cell Content	D-2856C-4	90+% by volume

Winter regular and summer grades available

**Packaging**

One Thousand Pound Kit: 500 Pounds of 'A' side and 500 Pounds of 'B' side.

One Hundred Pound Kit: 50 Pounds of 'A' side and 50 Pounds of 'B' side.

**Mixing**

Prior to designing and installing a spray polyurethane foam interior insulation system, code officials should be consulted for recommendations and approvals. Federal, local and state building codes vary. All require that spray applied polyurethane foam insulation be covered with an approved 15 minute fire rated thermal barrier. One typically approved material is ½" (1 cm) gypsum wallboard applied over the spray polyurethane foam insulation. However, always check with local officials for recommendations and approvals. It is recommended that the approved thermal barrier be installed the same day the foam is applied.

All hot work, i.e., welding, torches and open flame work, must have been completed prior to commencing the installation of the polyurethane foam insulation. Smoking in the same area while the spray polyurethane foam insulation is being applied shall be strictly prohibited.

**SPEC Technologies 1.8WB GOLD** cannot be applied when substrate temperatures are below 40°F (4°C). Ambient conditions, component temperatures, spray gun mix efficiency and foam thickness also influence reactivity. Technical Service Personnel should be consulted whenever conditions are marginal. The aforementioned information on this product is to be used as a guide and is subject to change without notice. They are offered in good faith, but without guarantee, as conditions and methods and use of our products are beyond our control. Any obligation of the seller or manufacturer shall have no force or effect unless it is in writing and signed by officers of the manufacturer.

**SPEC Technologies 1.8WB GOLD** must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters, as required for individual application.

**Minimum Parameters for Processing SPEC Technologies 1.8WB GOLD**

Working Pressure

1000-1500 psi

Working Temperature

120-140 °F

## TYPICAL PHYSICAL PROPERTIES

Properties shown are for materials sprayed onto a surface at room temperature and removed for physical testing. The values presented were derived from polyurethane foam, which was adequately mixed and properly metered at the specific ratio. If the polyurethane foam is not adequately mixed and properly metered at the specified ratio, the resulting values will not conform to the listed specifications.

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