TECHNICAL DATA SHEET

Polyurethane insulation system

Oberosil-8700

SPRAY APPLIED RIGID POLYURETHANE FOAM NEW GENERATION, CLASS I, 0 ODP

Oberosil - 8700 is a two-component, open-celled, spray-applied, semi-rigid polyurethane foam system. This product is a fully water-blown foam system with a very low in-place density. Oberosil - 8700 meets the off gassing requirements of CGSB 51.23-92 for new residential construction. Oberosil - 8700 has been approved by the EcoLogoSM (formerly Environmental Choice) Program of Canada and is listed as a *Certified Green Product.* Oberosil - 8700 complies with the intent of the International Code Council's residential and commercial building codes for spray polyurethane foam plastic insulation.

PHYSICAL PROPRERTIES

Method	Description	Value
ASTM D1622	**Average core Density**	**9.6 – 12.8 Kg/m^3**
		(0.65 – 0.8 lb/ft^3)
ASTM C518	**Thermal Transmission 2 days @ 23°C**	**0.71 m^2.°C/ W**
	-10°C (50°F) / 35°C (95°F)	**(4ft^2. h.°F/BTU.in)**
		(3.81 ft2. h.0F/BTU.in)
ASTM E 283	**Air Leakage** ***(Air Impermeable IAW 2006 IRC Requirements)***	
	3.5" @ 75 Pa (25 mph wind)	**0.001 L/s•m^2**
	5.5" @ 75 Pa (25 mph wind)	**0.001 L/s•m^2**
	10" @ 75 Pa (25 mph wind)	**0.002 L/s•m^2**
	Sustained Wind Load for 60 minutes	**No Damage**
	@ 1000 Pa (90 mph wind)	
	Gusty Wind Load Test @ 3000 Pa	**No Damage**
	(160 mph wind)	
ASTM E 96	**Water Vapor Transmission 1"**	**9.6 Perm**
CGSB 51.23-92	**Off Gassing Tests (VOC Emissions)**	**Pass (No toxic vapors)**
ASTM E84	**Surface Burning Characteristics, thickness 6'' :**	**15-20 Class I**
	Flame spread index	**21**
	Smoke developed	**400**
ASTM D 2863	**Oxygen Index**	**22%**
ASTM D 1929	**Ignition Properties** **(Spontaneous-ignition temperature)**	**1040ºF (560ºC)**

OBERON Chemical Company

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.

LIQUID COMPONENTS PROPERTIES

PROPERTY	ISOCYANATE	RESIN
Colour	Brown	Transparent Clear
Viscosity @ 25°C	150-250 cps	250-450 cps
Specific gravity	1.20-1.24	1.09 – 1.12
Shelf life*	6 months	6 months
Mixing ratio (volume)	100	100
Vapor pressure @ 25°C	10^{-7} psi	7 psi

*** See MSDS for more information.**

Processing Data used for Foam's properties determination

Type of machine :	**Graco® Reactor E-30** with Fusion gun and 02 Mixing Chamber
Components A&B Temperature:	**52.5ºC (125ºF)**
Ambient temperature:	**25°C (77°F)**
Thickness per pass:	**4-5 inch**
Number of passes:	**1**
Substrate:	**Plasterboard**

Reactivity profile through the machine

Cream time	Gel time	Tack free time	End of rise
1-2 sec.	3-4 sec.	6-7 sec.	6-7 sec.

RECOMMENDED PROCESSING PROCEDURES

Mixing ratio A/B, volume:	**1/1**
Mixing components temperature (A&B):	**49°C /120°F**
Pressure of mixing (minimum):	**1000 psi**
Substrate & Ambient temperature:	**> 23 °F**
Curing temperature:	**> 23 °F**
Minimum cooling time period before applying over thick application	**not limited**

GENERAL INFORMATIONS:

It is recommended that the foam be covered with an approved thermal barrier in accordance to the local and national building codes when used in buildings and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°C to 80°C (-76°F to 180°F).
Respect recommended processing installation procedures, never apply excessive thickness of SPF in one application, it may cause spontaneous combustion of the foam hours after the foam was installed.