



Technical Data Sheet

Rigid Building Foams

Rigid Building Foams offer a unique blend of properties which yield excellent mechanical and thermally efficient structures. SSFR foams deliver high compressive/shear strength, insulating capacity, overall toughness and impact resistance. Their high performance strength to weight ratio densities produce a wide range of applications for very diverse industries. As an energy saving material yielding very high insulating values, paralleled with its sound absorbing capability it has seen much use in the architectural and construction industries. Rigid foams are applied in spray or casting formats. Pour casting diversifies its uses to the areas of consumer products manufacturing, mold making, marine docks, flotation, void fill, artwork carving and many industrial and commercial industries. SSFRs may be subsequently color top-coated, textured and clear coated to handle extensive outdoor rugged environments using the ClearSkin system. These materials maintain dimensional stability and will not deform or distort within operating temperature of -100F to 200F. Fire retardant formulations are used in structural public buildings and warehouses. Installation cure times range from 30 sec. to 30 min. depending on application method (spray vs. pour), ambient temperature and humidity. Pour foam applications require longer cure times and caution must be taken for large castings due to inherent exothermic reaction process. SSFRs utilize a standard 2-component liquid pumping machine for both the spray and pour methods of dispensing. Volumetric expansion of SSFR may be formulated up to 140x relative to its original volume depending on required application densities. Densities of 2-3 pcf have been tested to MIL-P21929C.

The Rigid Building Foams are water or gas blown (245 or Pentane) fast-set materials typically used for air-tight insulation applications due to their closed-cellular nature. These foams are premium building products which contribute structural integrity with moisture, air and chemical vapor barrier integrity. High insulating values are attributed with these foams and as such are commonly in roof, wall and floor insulation applications, commercial freezers and all energy saving applications where high thermal insulating requirements are mandated. Values vary relative to foam densities. Foam coverage per sq.ft. will vary relative to the density also as governed by expansion characteristics, the ambient spray temperature and the substrate temperature.

Closed Cell Content (%)	ASTM D2856	Open	>40	>85	>90	>90	>95	>95	>95
-------------------------	------------	------	-----	-----	-----	-----	-----	-----	-----

NOTE: Gas-Blown foam property values are indicated (value)