

**DESCRIPTION**

**UL 2253** is a microcellular acoustic spray-applied polyurethane (SPF) foam system designed for insulation applications. **UL 2253** is compatible with most common construction materials, but should only be processed with **UL 2253** Isocyanate. The benefits of **UL 2253** include:

Superior insulation performance, Ease of application, Non-fibrous, Sound control

**GENERAL INFORMATION**

**UL 2253** is an open-cell spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. UL Products technical service personnel should be consulted in all cases where application conditions are questionable.

**UL 2253** is a sound absorption technique used to isolate passenger compartment from road and vehicle noise. Sound absorption is usually achieved through the use of foam materials designed specifically to convert incident sound energy into another foam. **UL 2253** is a highly economical polyurethane foam acoustical material for function in automotive applications. **UL 2253** not only offers excellent sound absorption performance compared to other materials, but it is also lightweight. A distinct advantage of foam over fibrous acoustic technologies is that foams are dimensionally stable over time. This allows the designer to be confident that acoustic performance will not erode due to continued stress of vibration.

**CAUTIONS AND RECOMMENDATIONS**

**UL 2253** resin requires continuous agitation. Mechanical mixing for a minimum 30 minutes is recommended prior to and must be continued during installation. Proper mixing will produce a vortex in the resin and may be accomplished with any number of equipment configurations and mixer blade types. Once installed material has cooled it is possible to add additional applications in order to increase the overall installed thickness of SPF.

**UL 2253** is **NOT** designed for use as an **EXTERIOR** roofing system.

Cold-storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor drive. **UL 2253** should **NOT** be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage.

**UL 2253** is designed for installation in most standard construction configurations using common materials such as wood and wood products, metal and concrete. **UL 2253** has performed successfully when sprayed onto wood substrates down to 40°F. For other substrates, please consult your UL Products sales or technical service representative for specific recommendations. Foam plastic materials installed in walls or ceilings may present a fire hazard unless protected by an approved, fire-resistant thermal barrier with a finish rating of not less than 15 minutes as required by building codes. Rim joists/header areas, in accordance with the IRC and IBC, may not require additional protection. Foam plastic must also be protected against ignition by code-approved materials in attics and crawl spaces. See relevant Building Codes for more information. **UL 2253** foam systems are **NOT** recommended for medical uses; such as, splints or casts for broken bones nor other medical or pharmaceutical uses.

<b>TECHNICAL DATA</b>	
Mix Ratio by Volume .....	1A : 1B
Processing Temperature .....	80°F
Cream Time .....	30 ± 10 seconds
Gel Time .....	50 ± 10 seconds
Pounds per Cubic Feet .....	40 lbs
Viscosity at 80°F:	
Part-A .....	650 ± 200 cps
Part-B .....	830 ± 200 cps
Density:	
Part-A .....	9.61 ± 0.2 lbs/gal
Part-B .....	8.69 ± 0.2 lbs/gal
Tensile Strength, ASTM D-412 .....	1000 ± 100 psi
Elongation, ASTM D-412 .....	175 ± 30
Tear Resistance, ASTM D-624 .....	150 ± 30 pli
Hardness, ASTM D-2240 .....	75 ± 5 Shore A
This numerical flame spread rating does not reflect hazards presented by this or any other material under actual fire conditions. Polyurethane foam systems should not be left exposed in interior applications and must be protected by a minimum of a 15-minute thermal barrier.	