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Foam Insulation: An Overview

Foam insulation has been used as a specialty product in the building industry for over 50 years. It is widely known to be a safer, more effective alternative to other insulators (e.g. fiberglass and cellulose). In recent years, technology has evolved to allow us to spray apply foam insulation at reasonable cost points. As architects and designers learn more about the product and its available characteristics, they will be amazed at the way it fills the needs involved in created energy efficient construction while maintaining excellent Indoor Air Quality, decreasing noise pollution and improving the overall indoor environment.

Foam insulation comes in endless varieties. At Green Star Foam, the four most common types we spray are: **½ lb., 1 lb, 2 lb, and 3 lb density foams.** A **½ lb. foam** that is fully cured and cut into a 1 cubic foot piece weighs ½ lb. That's how it gets its name. The R-Value of foam is additive. So when we talk about a foam's R-Value, we generally only mention the R-Value of the first inch. In other words, if a foam has an R-Value of 7, that foam applied two (2) inches thick has an R-Value of 14. Further, foam, unlike other insulators, expands to fill every possible gap or hole in the cavity to which it is applied. This makes all spray-applied foam an exceptional air barrier as well as an insulator. Other attributes available in different types of foams are: vapor barrier, structural capacity (commonly available up to 45 psi), waterproofing, self-flashing, fire and flame retardant (E 84), paintable, tintable, and sound-deadening.



Polyurea Coatings

In addition to spray foam, we also apply polyurea coatings. For the architect and designer, polyurea coatings are another incredible tool for solving various design related problems.

The most well known application of spray-spray applied polyurea coatings are in the installation truck bed linings (e.g. Rhino® linings, etc). However, they're just the tip of the iceberg. Polyurea coatings are often applied as flooring materials, waterproof roof coverings, tank liners as well as anything else you could think of. Polyurea coatings can be applied to almost any surface (wood, metal, concrete, etc.) offering such attributes as: self-flashing, water proofing, solvent proofing, air proofing, textures, colors, designs.

We can apply fast set polyurea spray coatings and polyurea liners at temperatures as low as -40° F. Designed to be used on most substrates, fast set spray polyurea is often the material of choice for a coating or liner for concrete and metal roofs, tanks, decks, parking structure traffic membranes, dampproofing, below grade waterproofing, general containment ponds or lagoons.

Fast set spray polyurea is resistant to some grades of jet fuel, as are all the polyurea sealant and repair products. Polyurea is especially suitable as a flexible liner or membrane in the containment of sewage and wastewater. Its high abrasion resistance makes polyurea ideal for transmission of most liquids containing a high percentage of suspended solids.

Fast set spray polyurea is a very popular seamless flooring material. It can be applied up to 4000 sf in a single day at 80 millimeters thick, in any color, with or without texture. It can be applied in thicknesses of 10 millimeters thick to 1000 millimeters thick.

If you're interested in learning more, give us a call. We'll determine the best polyurea coating for your application and price it out for you.

