

COSTARTHERMAL B12

Low Density High Performing Spray Insulation

Description

Costarthermal B12 is a premium spray polyurethane foam building insulation system. The product is generated on site by combining an isocyanate and a polymeric resin through a dual-component proportioner. Fast, easy and adaptable, it can achieve an R-value of 20 at 3 inches. Costarthermal B12 is a low density based polyurethane foam recommended for roofing and other exterior insulation because it is applied in a continuous manner, in addition to thermal resistance properties.

Application Areas

Costarthermal B12 is recommended for use as insulation foam on the following areas:

- Exterior Roof Insulation
- Interior Under ceiling Roof Insulation
- Wall and floor Insulation
- Cold room Insulation

Features/Benefits

- Good thermal resistance
- Provides load support to structure
- Help to reduce energy cost
- Provides excellent protection against heat and water infiltration.
- Increase building resistance to wind uplift

Application

■ Surface Preparation and Application

For optimum results, surfaces receiving Costarthermal B12 should be clean and dry, free of dirt, oil, solvent, grease, loose particulate, peeling coating or other foreign matter. Costarthermal B12 adheres well without primer to expanded polystyrene, extruded polystyrene, foil-faced insulation boards, CMU and cured concrete. Ferro metallic substrates (especially mild steel) should be sand-blasted in accordance with SSPC-SP6. Sand-blasted surfaces should be immediately primed with an epoxide primer as recommended by the primer manufacturer. Galvanized and stainless steel, and aluminum substrates should be treated with an appropriate wash primer or adhesive prior to application of Costarthermal B12

Specification

Costarthermal B12 is specified for use for the insulation of external roof floors, under ceiling areas, depending on irregularities in the substrates. Below are the general consumption guides, 0.7kg to 1.5 kg depending on the roughness or smoothness of the surface per layer of coatings depending on thickness of application so desired.

Protective Equipment

Spraying of polyurethane foam results in the atomizing of the components to a fine mist. Inhalation and exposure to the atomized droplets must be avoided. Applicators must use personal protective equipment recommended by the Center for Polyurethanes Industry for use in high pressure spray foam application. Precautions include, but

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- Full-face mask or hood with fresh air source
- Fabric coveralls
- Fabric gloves
- Rubber gloves when handling new materials and cleaning solvents.

WARNING: Exposure may occur even when no noticeable odor is encountered.

Technical Data

	Unit	Polyol Blend	Isocyanate	Test Method
OH Value	MgKOH/g	260-280		ASTM D 4274
NCO Content	%		30-31	ASTM D 5155
Viscosity (25 °C)	MPa.s	260-300	220-250	ASTM D 4878
Specific Gravity (20°C)	g/ml	1,12	1,23	ASTM D 891

	Unit	Machine mix
Cream time	sec	3-5
Gel time	sec	7-10
Density	Kg/m ³	24-26

Cleaning and Health

Tools used in the preparation and application of Costarthermal B12 must be cleaned with solvents immediately after use. It contains epoxy resin and amine and therefore toxic irritant. Do not inhale. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles and side shields. In case of contact with eyes flush repeatedly with water and contact physician.

Packaging and Shelf Life

Costarthermal B12 is packed in 210 litres and 225 litres drums. Store in a cold dry place. With proper storage material can be stored and used within 12 months.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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