COSTARTHERMAL B24

High Density High Performing Spray Insulation



PRODUCT DESCRIPTION

Costar thermal B24 is premium two component closed cell polyurethane Spray foam for 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. Costar thermal B24 is a high density based polyurethane foam recommended for roofing and other exterior insulation because it is applied in acontinuous manner.

BENEFITS _____

- Superior Thermal Resistance The R- value of Costar thermal B24 is higher than traditional insulation products resulting in reduced conductive heat loss and lower energy consumption.
- Excellent Air Sealing Ability Costar thermal B24 is a closed cell insulation that expands while being installed creating an effective air barrier, reducing air leakage, resulting in improved comfort and energy savings.
- **Durability** Costar thermal B24 is a highly durable and lasting insulation product. It extends building life
- Joint less Costar thermal B24 insulating material produces a seamless insulating layer with no joints or gaps and reduces energy loss due to thermal bridging
- **Seamless** Liquid" installation means that critical, inaccessible or curved areas can be insulated without any problem

- **Fast and Easy Installation** no need for laborious cutting and fitting.
- Excellent Adhesion Because Costar thermal B24 isapplied in situ, it has the advantage of fitting like a second skin and is suitable for virtually all substrates such as concrete, timber boards, corrugated fibre cement and profiled metal sheet.

APPLICATION

Surface Preparation and Application

For optimum results, surfaces receiving Costar thermal B24 should be clean and dry, free of dirt, oil, solvent, grease, loose particulate, peeling coating or other foreign matter. Costar thermal B24 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 primermanufacturer.

Galvanized and stainless steel and aluminum substrates should be treated with an appropriate wash primer or adhesive prior to application of Costar thermal B24.

SPECIFICATION _____

Costar thermal B24 is specified for use for the insulation of external roof floors, under ceiling areas, depending onirregularities 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.



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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

- 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.

Packaging	210L
Basis	Polyurethane prepolymer
Curing system	Moisture cure
Specific gravity	17.5 - 18.9kg/m ³ (ASTM D1622)
Tack-free time	4 minute (ASTM C1620)
Yield	3m ² for 1.5cm thickness
Fire class of the cured foam	B3 (DIN 4102)
Thermal conductivity	0.020w/m.k (at 20C) (DIN 52612)
R value	5.66/inch
Compressive strength	0.13MPa (DIN 53421)
Pull off strength	3MPa
Full cure	24hours
Application temperature	Min 5°C, max +30°C
Can temperature	Min 5°C, max +30°C
Temperature resistance	-75°C to +115°C
Shelf life	12month from date of production
VOC content	13 g/l max
Water vapour transmission	0.99 (ASTM E-9060 method A desiccant pe-rinch)
Dimensional stability	Pass (ASTM D2126<15% 168hrs
	at 70°C, 97% humidity)
Sound transmission	27/24

TECHNICAL PROPERTIES _____

11501 Dublin Blvd-Ste 200, Dublin, CA 94568, USA | 925-445-0020, 925-445-0021 (Fax)

Performance As Promised



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STORAGE AND SHELF LIFE _____

Store in a cold dry place. With proper storage material can be stored and used within 12 months.

STANDARD

Conform to the requirement of ASTM D1622, ASTM E96-00, DIN 53421

CLEANING AND HEALTH

Tools used in the preparation and application of Costarthermal B24 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, googles and side shields. Incase of contact with eyes flush repeatedly with water and contact physician.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE _____

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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