SKYTITE® C2-3.0 Series
SPRAY POLYURETHANE FOAM ROOFING INSULATION
ICC-ES ESR-2298

DESCRIPTION:
SKYTITE C2-3.0 is an HFC-blown, Zero Ozone-Depleting (Zero-ODP), spray polyurethane foam (SPF) system designed for roofing applications. SKYTITE C2-3.0 is compatible with most common construction materials but can only be processed with ELASTOSPRAY® 8000A Isocyanate.

ADDITIONAL TESTING, APPROvals & CERTIFICATIONS:
- ASTM E84 Listing with QA(3)
- ASTM C1029 Type III
- UL 790 Listings for Roof Assemblies- Exterior Fire
  - Non-Combustible Decks
    - Class A up to 4-inch thickness of SPF
    - Up to 1-inch Incline available with Acrylic coating options
    - Up to 3-inch Incline available with Silicone coating options
    - Granules at 30 lbs. per 100 ft² depending on configuration
  - Combustible Decks
    - Class B at 1½ inch (min) SPF thickness
    - Silicone and Acrylic coating options
    - Granules at 30 lbs. per 100ft² depending on configuration
- ASTM E108 for Roof Assemblies – Exterior Fire
  - Non-Combustible Decks
    - Class A up to 4-inch thickness of SPF
    - Up to 3-inch Incline available with Acrylic coating options
    - Up to 2-inch Incline available with Silicone coating options
    - Granules at 30 lbs. per 100 ft² depending on configuration
  - Combustible Decks
    - Class B at 1½ inch (min) SPF thickness
    - Silicone and Acrylic coating options
    - Granules at 30 lbs. per 100 ft² depending on configuration

Please contact your local Sales or Technical Representative for specific questions regarding SKYTITE C2-3.0 properties, approvals, or certifications.

(1) These physical property values are typical for this material as applied at our development facility under controlled conditions. SPF performance and actual physical properties will vary with differences in application (i.e. ambient conditions, process equipment and settings, material throughput, etc.). As a result, these published properties should be used as guidelines solely for the purpose of evaluation. Physical property specifications should be determined from actual production material.

The above data was collected from samples prepared using equipment configurations pertinent to lab conditions. Parameters can be obtained upon request by calling 800-706-1712.

(2) The data chart shows the R-value of this insulation. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation will depend upon the climate, the type and size of your house, and the fuel use patterns and family size. If you buy too much insulation it will cost you more than what you will save on fuel. To achieve proper R-values, it is essential that this insulation be installed properly.

(3) 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 15-minute thermal barrier or other code-compliant material as allowed by applicable building code(s) and Code Officials. Building Codes provide guidelines representing minimum requirements. Further information is available at www.iccsafe.org. Consult all Authorities Having Jurisdiction (AHJ) over an area for additional or specific requirements prior to beginning any project.

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GENERAL INFORMATION:

SKYTITE C2-3.0 is a 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. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

SKYTITE C2-3.0 has an estimated theoretical yield range of 2,500-2,700 board feet per set. Actual coverage can be in excess of or below the referenced estimated theoretical range based on factors affecting density including, however, not limited to: multiple lifts, substrate texture, substrate temperature, overspray loss, windy conditions, altitude, container residue, equipment characteristics & temperatures, applicator technique, etc. For help estimating yield for this and other spray foams, please consult Spray Polyurethane Foam Alliance’s SPF-121 SPF Estimating Reference Guide.

CAUTIONS AND RECOMMENDATIONS:

SKYTITE C2-3.0 is designed for an application rate of ½ inch minimum to 1½ inches maximum per pass. Once installed and material has cooled it is possible to add additional applications in order to increase the overall installed thickness of SPF. Thicker installations are allowed based on large scale testing. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

SKYTITE C2-3.0 is NOT designed for use as an INTERIOR insulation system. BASF offers a separate line of products for interior insulation applications. For more information, please contact your sales representative.

Cold-storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor representative.

In addition to reading and understanding the SDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review related industry and best practice documents published by organizations such as Spray Polyurethane Foam Alliance (SPFA), OSHA, Spray Foam Coalition (SFC) and American Chemistry Council / Center for the Polyurethanes Industry (CPI)

SKYTITE C2-3.0 is designed for installation to most standard construction surfaces. SKYTITE C2-3.0 should NOT be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage.

SKYTITE C2-3.0 is designed for installation to most standard construction materials such as wood, wood-based products, plastics, metal and concrete. Applications can be done at approximately 50°F and warming using special cold weather application techniques. For heat sink-materials such as metal or concrete, SKYTITE C2-3.0 can be sprayed onto substrates down to 60°F, using a flash pass method. BASF recommends the use of mock ups or sample spray before starting the full-scale project. This will provide an opportunity to see how all materials are installed and evaluate their properties prior to proceeding. Please consult a BASF Representative for further information about applications using our liquid compounds.

Important Material Preparation Note: Product should be stored at 50-80°F. Materials should be prepared for processing by being warmed to 70°F minimum at least 24 hours prior to installation and maintained at 70°F during the install process.

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