

WALLTITE® RSB: Sustainability Overview

High-Performance Spray Foam backed by Multiple Verifications

WALLTITE® RSB is a next-generation closed-cell spray polyurethane foam (SPF) that combines high thermal performance with verified sustainability benefits. As part of BASF's Future-Oriented Advanced Materials (F.O.A.M.) platform, WALLTITE® RSB helps reduce embodied carbon in the built environment, supports green building programs, and delivers the durability and energy efficiency you expect from closed-cell spray foam.

RSB = Recycled, Sustainable, Bio-based

The name reflects the core of the formulation and its impact:



20% combined renewable and recycled content by volume, providing a meaningful reduction in virgin raw material use compared to conventional closed-cell SPF. Further fossil feedstock reductions available via mass balance approach, when the WALLTITE® RSB resin is paired with our ELASTOSPRAY® BMB Isocyanate.



Environmental impacts measured and verified by independent Life Cycle Analysis (LCA). Recycled and renewable content verified by UL Solutions, giving transparent, third-party confirmation of these circularity claims.



Certified Biobased under the USDA BioPreferred® Program, signaling independently verified biobased content.

Low-Carbon & Resource Responsible Chemistry

WALLTITE® RSB pairs its RSB resin with ELASTOSPRAY® BMB Isocyanate, which uses a biomass balance (BMB) approach: a share of fossil raw materials is replaced with circular feedstock (in the form of natural gas from landfill waste) at the upstream production site, and that share is attributed to the isocyanate via a certified mass-balance methodology.

- A product-specific Environmental Product Declaration (EPD), verified by NSF International, documents the reduced embodied carbon of the WALLTITE® RSB spray foam when using ELASTOSPRAY® BMB isocyanate, aligning with the ISO 21930 / ULE 10010-1 Product Category Rule requirements for building envelope thermal insulation.
- BASF WALLTITE® RSB with ELASTOSPRAY® BMB isocyanate provides significant GWP reductions – nearly 50% less when compared to the Spray Polyurethane Foam Alliance (SPFA) industry average EPD for HFO closed-cell SPF systems, when the biogenic carbon contributions via mass balance are considered.
- The system uses an HFO blowing agent with extremely low global warming potential (GWP < 1), helping to significantly lower climate impact compared to HFC-based systems¹.

Verified Indoor Air Quality & Transparency

- GREENGUARD® and GREENGUARD Gold® certified, meeting stringent third-party VOC emission standards, including criteria based on CDPH Standard Method v1.2 for classroom and office environments. Documented low-VOC material for improved indoor air quality, with quick re-entry time for other trades when proper ventilation is used.
- Health Product Declaration (HPD) available, providing ingredient and hazard transparency for architects, specifiers and sustainability teams.



Performance That Supports Sustainability

Closed-cell design is part of the sustainability story:

High R-value: up to R-7.6 per inch contributing to long-term energy savings and lower embodied and operational carbon.

- Optimize building footprint with thinner walls.

Air and moisture control: Class II vapor retarder at typical wall thicknesses, air barrier performance, and low water absorption all contribute to durability and reduced risk of moisture-related damage.

- Simplify construction, reduce additional air and vapor barrier materials & labor costs.

Resiliency and adhesion: closed-cell structure improves building envelope strength, resilience and minimizes impacts from high wind or storm events.

- Helps reduce material turnover and supports long service life.



Supporting Green Building Standards & Codes

- As verified in BASF's EPD from NSF International, WALLTITE® RSB with ELASTOSPRAY® BMB isocyanate is designed to help projects meet today's high-performance, low-carbon requirements:
- Supports green building rating systems and policies like LEED v5, ICC-700 National Green Building Standard, and CALGreen by combining reduced embodied carbon, high energy efficiency, and verified indoor air quality attributes.
- EPD and HPD documentation is ready to support A/E sustainability submittals, ESG reporting, and state / federal green procurement programs.



Scan or click for more information on the BMB methodology and EPD results.

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1: See GWP values at 40 CFR 84.64 (<https://www.ecfr.gov/current/title-40/section-84.64>)

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