

Love your Walls with ICYNENE LD-R-50™

ICYNENE LD-R-50™ is Icynene's next generation of high-performance insulation. ICYNENE LD-R-50™ is a renewable-based foam insulation and air barrier material that is responsibly made using castor oil and offers numerous environmental benefits.

Castor oil has been used in place of a portion of the petroleum-based polyol. ICYNENE LD-R-50™ exceeds the minimum renewable requirement for a bio-based material (testing in accordance with ASTM D 6866) and can contribute toward a building's achievement of credits/points under various national green building standards, including [LEED](#) and the [NAHB's NGBS program](#).

Extracted from the castor plant, castor oil is a natural ingredient that is safe enough for use in personal care products such as lip balm. Production of the castor plant has low energy dependence and requires no pesticides, fungicides or man-made irrigation. The castor oil used for ICYNENE LD-R-50™ has a make-up which is extremely consistent year over year, from location to location and has a higher yield by weight (~40%) than soya oil (~17%).

Key benefits for homeowners, building professionals, architects:

- It is an Environmentally Preferable Product (CHPS EQ 2.2 Section 01350 Compliant) that is 100% water-blown, free from HFCs and PBDEs.
- It insulates and air-seals in one step for maximum energy conservation while minimizing the environmental impact.
- By significantly reducing air leakage, ICYNENE LD-R-50™ contributes to a healthier, quieter and more comfortable indoor environment, while reducing energy consumption and related greenhouse gas emissions by as much as 50%.