ASHFORD FORMULA

LEED v4, v4.1, v5
Product Contribution Guide

1. PRODUCT INFO

Product: **Ashford Formula™**
Manufacturer: **Curecrete Distribution, Inc. – Springville, Utah, USA**
Application: **Permanent concrete densifier and hardener for existing and new concrete slabs.**

2. PURPOSE OF THIS DOCUMENT

This guide summarizes how Ashford Formula can support project teams pursuing LEED® certification under current LEED frameworks (LEED v4, v4.1, and the emerging LEED v5 platform). It also highlights Curecrete's **Environmental Product Declaration (EPD)** and how it contributes to LEED credit pathways that emphasize product transparency, embodied carbon reporting, and life-cycle performance.

This document is a product-level resource only and does not guarantee the achievement of any LEED credits. All LEED decisions are made at the project level by GBCI/USGBC.

3. OVERVIEW OF ASHFORD FORMULA

Ashford Formula is an inorganic, chemically-reactive, water-based treatment for exposed concrete floors that virtually eliminates dust and significantly enhances surface hardness and density.

Curecrete has published an Environmental Product Declaration (EPD) that provides a third-party-verified, standardized assessment of the environmental impacts associated with its products. Where applicable under the project's LEED version, this EPD helps satisfy credit requirements for product transparency, LCA-based decision-making, and embodied carbon disclosure.

Key sustainability attributes:

- Utilizes exposed concrete as the finished floor surface, eliminating the need for floor coverings and adhesives, coatings, or paint
- Permanently densifies concrete – no film, no topical resin
- Eliminates the need for floor coverings (carpet, vinyl, tile, etc.)
- Highly durable, designed to last the life of the slab
- EPD available to support LEED transparency and life-cycle impact credits

4. APPLICABILITY TO LEED RATING SYSTEMS

This contributor guide aligns with:

- LEED v4 / v4.1 BD+C & ID+C
- LEED v5 themes and impact areas (Decarbonization, Quality of Life, Ecological Conservation)

The document avoids outdated credit numbering and maps Ashford Formula to the current LEED intent structure, including areas where the EPD provides direct value.

5. KEY SUSTAINABILITY ATTRIBUTES

LIFE-CYCLE & DURABILITY

- Enables use of exposed structural concrete as the final finished surface, eliminating added floor coverings and

adhesives
- Contributes to reduced embodied carbon compared to traditional multi-layer flooring systems
- Long-term densification may reduce material consumption over the building life cycle
- Ashford Formula's performance characteristics can complement project whole-building LCAs

LIFE-CYCLE TRANSPARENCY VIA CURECRETE'S EPD (NEW)

- Curecrete's published EPD provides standardized life-cycle environmental impact data (including global warming potential), supporting LEED credit pathways for:
  - Material Ingredients & Product Transparency (LEED v4/v4.1)
  - Embodied Carbon / Decarbonization Credits (LEED v5)
- The EPD enhances project teams' ability to evaluate comparative environmental impacts of flooring systems

INDOOR ENVIRONMENTAL QUALITY (IEQ)

- Zero VOC formulation supports compliance with LEED's low-emitting materials criteria when supported by emissions or VOC documentation
- The densifier becomes part of the concrete, producing no ongoing film-related VOC emissions
- No solvent-based odor, fumes, or off-gassing during normal use after cure

MATERIAL EFFICIENCY & WASTE REDUCTION

- Treating and reusing an existing slab aligns well with LEED strategies for:
  - Material reuse
  - Construction waste minimization
  - Design for resource efficiency
- Reduces long-term replacement waste compared with flooring systems that require cyclical removal and replacement

REGIONAL MANUFACTURING

- Product manufactured in Springville, Utah, USA
- Depending on project proximity and LEED version-specific definitions, this may support regional sourcing contributions

6. POTENTIAL LEED CONTRIBUTION PATHWAYS (INCLUDING EPD USE)

Below are typical areas of contribution, depending on the project's LEED version and documentation

DECARBONIZATION & LIFE-CYCLE PERFORMANCE

Use of EPD in LEED v4/v4.1

Curecrete's EPD may contribute to:

- LEED MR: Building Product Disclosure & Optimization (BPDO) – Environmental Product Declarations
  - The Ashford Formula EPD can count as one contributing product toward the required number for Option 1 (Disclosure)

Relevance to LEED v5's Decarbonization Pathways

- LEED v5 places a higher emphasis on embodied carbon data and product-level disclosures
- Curecrete's EPD provides the necessary verified LCA data for inclusion in embodied carbon analyses and

material selection modeling

System-Level Embodied Carbon Reduction

- Ashford Formula enables the use of exposed concrete floors, reducing the need for additional higher-carbon finishes
- Reductions captured in whole-building LCAs can support LEED decarbonization strategies

QUALITY OF LIFE – INDOOR ENVIRONMENTAL QUALITY

- Low-VOC characteristics may support IEQ credit pathways in LEED v4/v4.1 and LEED v5 "Quality of Life" categories
- EPD transparency further supports health-related decision-making by giving project teams access to complete environmental impact data

ECOLOGICAL CONSERVATION & MATERIALS CIRCULARITY

- Slab reuse reduces raw material extraction and waste generation
- Long-term durability aligns with LEED's circularity principles
- The EPD provides documentation for evaluating the environmental impacts of maintaining vs. replacing flooring systems over the building's life

7. Supporting Documentation Available from Curecrete

The following documentation may be provided upon request for LEED submittals:

- Environmental Product Declaration (EPD)
- Health Product Declaration (HPD)
- VOC content and/or emissions testing reports
- Product Technical Data Sheet (TDS)
- Safety Data Sheet (SDS)
- Installation & maintenance guidelines
- Regional manufacturing information

8. Important LEED Disclaimers

- LEED credits are awarded to projects, not products.
- Curecrete's EPD allows Ashford Formula to serve as a qualifying disclosure product, but does not ensure credit achievement.
- Project teams must confirm:
  - Applicable LEED version
  - Required documentation for each pursued credit
  - The role of Ashford Formula in the overall materials strategy

Always reference USGBC for the most current LEED requirements.

9. Curecrete Contact Information

For LEED submittals, EPD requests, or technical questions:

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