Hallemite

®

Product Line

*Product Data Sheet*

HEF Underlayment



HEF UNDERLAYMENT

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| PRODUCT DESCRIPTION | PRODUCT INFORMATION |

# Clear or Pigmented

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| Physical Properties | Test Method | Result | |
| Tensile Strength (Resin), min. | ASTM D 638 | 5,000 psi | |
| Compressive Strength, min. | ASTM D 695 | 10,000 psi | |
| ASTM C 579 | 8,000 psi | |
| Flexural Strength, min. | ASTM C 580 | 3,000 psi | |
| Bond Strength | ASTM D  4541  Cont | >400 psi act Failure | |
| Impact Strength, Passing | MIL D 3134 | No Chipping,  Cracking or  Delaminating | |
| Hardness (Resin) | ASTM D  2240  SHORE D | 70 – 80 | |
| Hardness (Aggregate) | MOH’s Mineral Scale | 6.5 – 7.0 | |
| Abrasion Resistance | ASTM D  0.06 gr  4060  Tabor Abrader C 17  1000 gram load, 1000 cycles | | |
| Water Absorption, max. | ASTM D 570 | | 0.2% |
| Flammability | ASTM D 635 | | Self  Extinguishing |
| Anti-Microbial Resistance | ASTM G 21 | | Passes |
| Coefficient of Friction, Smooth ASTM D 2047 0.7  To increase the Coefficient of Friction, broadcast angular aluminum oxide into the wet epoxy. | | | |

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| Mix Ratio | A:B | 2:1 |
| Viscosity, mixed | Clear | 800 – 1,200 cps |
| Pigmented | 1,200 – 2,500 cps |
| Pot Life |  | 8 – 15 minutes |
| Packaging | Unit Sizes | 15 Gal Kit (10A:5B) |
| 150 Gal Kit (100A:50B) |
| Storage Temperature |  | 55˚F to 90˚F |
| Shelf Life  Unopened Containers |  | 1 Year From  Mfg Date |
| VOC |  | Zero |

HEF Underlayment is a low viscosity, 100% solids, solventless, two-part epoxy. It is designed to enhance the appearance of the floor substrate. HEF Underlayment can be used as a primer, a concrete repair mortar, a broadcast, a resurfacing screed or a self-leveling system. It is available in clear or pigmented (P15). As an option, a regular cure and a fast cure hardener is offered. HEF Underlayment is NOT to be used as a topcoat.

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| HEF Underlayment is durable and with mild chemical resistance. For higher chemical resistance see Hallemite Novolac Chemical and High  Temperature Resistant Epoxy Systems. | TYPICAL PHYSICAL PROPERTIES  @ 750F (230C) |

## ADVANTAGES

* Meets or Exceeds USDA, FDA and OSHA Requirements
* Economical
* Ideal for Leveling and Sloping
* Resistant to Mechanical Wear
* Durable and Long Lasting
* Quick Installation
* Primer
* High Build
* Slurry/Broadcast
* Self Level
* Mortar
* Patching
* Available in Clear and in Limited Pigmented Colors P15
* Available in a Regular Cure or in a Fast Cure Hardener

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HEF UNDERLAYMENT Clear or Pigmented – PDS 1708/1

80 Cypress Street – Warwick, RI 02888 – (P) 800-272-7752 – (F) 401-941-0150 hallemite.com

## SURFACE PREPARATION

The substrate must be clean (free of dirt, dust, paint, grease, oil, rust and other contaminates) , sound and durable. New concrete must be fully cured (28 days minimum) and all laitance and curing compounds removed. Suitable preparation methods include gritblasting, scarification and acid etching. The recommended minimum pull-off strength of the prepared substrate is 200 psi.

## SOUND and DURABLE CONCRETE

Sound and durable concrete should be crack free and have a cap pull-off strength of 180 psi, per ACI 503 R.

## CRACKED CONCRETE

Repair cracked concrete with Hallemite 120 NonSag Epoxy Paste Adhesive per the manufacturer’s recommendations.

NOTE: Primer recommended on concrete to avoid “out-gassing” (air bubbles) related problems associated with porous concrete.

## CHEMICAL RESISTANCE

Chemical Resistance Immersion 7 Day

ASTM D 1308

*(See Hallemite Chemical Resistance Guide)*

## SLIP RESISTANCE & CLEANABILITY

Normally, the smoother the finished surface, the easier the coating or flooring system is to clean. The more aggressive or textured systems offer a greater degree of skid inhibition, but are usually more difficult to clean.

## CLEANING AND DISINFECTING

Cleaning and disinfecting compounds and cleaning techniques may affect the color, gloss, or texture of a polymer coating or flooring system. As a precautionary step, Hallemite recommends that the end user test the cleaning and disinfecting compounds on a sample or small finished area utilizing the intended cleaning technique prior to cleaning the entire surface area.

If no deleterious effects are observed, the procedure can be continued. However, if the cleaning and disinfecting compounds or cleaning technique damage the color, gloss, or texture, modification of the materials and/or procedures are required.

*Contact the Company’s Technical Service Department for more information.*

## LIMITED WARRANTY (abridged)

Neither seller nor manufacturer has any knowledge or control concerning the purchaser’s use of the system or product. No express warranty is made by the seller or manufacturer with respect to the results of any use of the product. NO IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO AN IMPLIED WARRANTY OF MERCHANTABILITY, OR AN IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE MADE WITH RESPECT TO

THIS SYSTEM or PRODUCT. Neither seller nor manufacturer assumes any liability for personal injury, loss, or damage resulting from the use of this product. In the event that the product shall prove defective, buyer’s exclusive remedy shall be as follows: Seller or manufacturer shall, upon written request of buyer, replace any quantity of the system or product which is proven to be defective, or shall, at its option, refund the purchase price for the system or product upon return of the system or product.

*(See Hallemite Price Schedule for full limited*

*warranty)*

SPECIAL NOTE: The Company reserves the right to alter or discontinue the system/product described herein at any time without prior notice.

QUESTIONS?

For questions on product availability or to obtain installation instructions, contact the RBC Industries, Hallemite Products Sales Department.

## KEEP OUT OF REACH OF CHILDREN BEFORE AND DURING PLACEMENT

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