

HEF BLACK UNDERLAYMENT

PRODUCT DESCRIPTION

HEF Black Underlayment is a low viscosity, 100% solids, solventless, two part epoxy. It is designed to enhance the appearance of the floor substrate. HEF Black Underlayment can be used as a primer, a concrete repair mortar, a broadcast, a resurfacing screed or a self-leveling slurry system. HEF Underlayment is NOT to be used as a topcoat.

HEF Black Underlayment is durable and with mild chemical resistance. For higher chemical resistance see Hallemite Novolac Chemical and High Temperature Resistant Epoxy Systems.

ADVANTAGES

- Ideal for Leveling and Sloping
- Primer
- High Build
- Slurry/Broadcast
- Self Level Slurry System
- Mortar
- Patching
- Economical
- Resistant to Mechanical Wear
- Durable and Long Lasting
- Quick Installation
- Meets or Exceeds USDA, FDA and OSHA Requirements
- Color Varies (Shades of Black)

SURFACE PREPARATION

The substrate must be clean (free of dirt, dust, paint, grease, oil, rust and other contaminants), 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.

PRODUCT INFORMATION

Mix Ratio	A:B	2:1
Color	Mixed	Varies Shades of Black
Viscosity, mixed		3,000 – 5,000
Pot Life		2- -40 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

TYPICAL PHYSICAL PROPERTIES

@ 75°F (23°C)

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	>400 psi
Impact Strength, Passing	MIL D 3134	No Chipping, Cracking or Delaminating
Hardness (Resin)	ASTM D 2240	70 – 80
	SHORE D	
Hardness (Aggregate)	MOH's Mineral Scale	6.5 – 7.0
Abrasion Resistance	ASTM D 4060	0.06 gr 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

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.

CHEMICAL RESISTANCE

Chemical Resistance Immersion 7 Day
ASTM D 1308
(See *Hallemitte 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, Hallemitte 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 Hallemitte 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, Hallemitte Products Sales Department.

KEEP OUT OF REACH OF CHILDREN BEFORE AND DURING PLACEMENT