RBC INDUSTRIES, INC.

Data Sheet
HEF – PB

Hallemite® Product Line

HEF – PB (PIGMENTED BROADCAST)
1/16 – 1/4 INCH PIGMENTED BROADCAST SYSTEM
Architectural Colored Resin & Aggregate Flooring System

PRODUCT DESCRIPTION

HEF – PB (Pigmented Broadcast) 1/16 – 1/4 Inch Epoxy Flooring System is aesthetically pleasing, 100% solids pigmented epoxy resin and aggregate flooring system. This system is installed at a nominal thickness of 1/16 – 1/4 Inch.

HEF – PB System is available in 16 standard colors, as well as, an infinite number of custom colors. This flooring system is extremely durable and chemical resistant, and is highly functional. It is ideal for most commercial, institutional and light industrial installations where a durable, seamless and chemically resistant flooring system is required.

TYPICAL USES

- **Machine Shops**
- **Airplane Hangars**
- **Garages**
- **Pharmaceutical Plants**
- **Clean Rooms**
- **Hospitals**
- **Laundries**
- **Kennels**
- **Bottling Plants**
- **Laboratories**
- **Warehouses**

ADVANTAGES

- **Meets or Exceeds USDA, FDA, OSHA and LEEDS Requirements**
- **Resistant to Chemical Attack**
- **Available in Standard and Custom Colors**
- **Durable and Long Lasting**
- **Surface Texture, Smooth to Aggressive**
- **Skid Inhibiting for "can't dry areas"**
- **Resistant to Algae, Fungi, Mildew & Mold** *(does not promote bacterial growth)*
- **Resistant to Mechanical Wear**
- **Resistant to UV Degradation**
- **Heat Resistant Exposure**
  Continuous @ 120ºF
  Intermittent @ 300ºF
  Dependant on Product Choice

BENEFITS

- **Stain Resistant**
- **Easy to Clean**
- **Good Color Stability**
- **Durable**
- **Low Viscosity**

CHEMICAL RESISTANT LEVELS

• Level I "HEF UV Pigmented"

Provides good chemical resistance in environments where there is a limited chemical exposure to chemicals such as:

Anti-Freeze (Propylene Glycol)
Kerosene
Sodium Hydroxide @ 50%
Urine

• Level II "HEF CRD Pigmented"

Provides increased chemical resistance in environments where upgraded chemical resistance is needed for exposure to chemicals such as:

Acetic Acid 10%
Formaldehyde 37%
Phosphoric Acid
Tannic Acid

• Level III "HEF CRA Pigmented"

Provides maximum chemical resistance in environments where there is extreme chemical exposure to chemicals such as:

Ammonium Hydroxide 30%
Chromic Acid 25%
Nitric Acid 65%
Sulfuric Acid 98%

Chemical Resistant Levels Note: See Hallemite Chemical Resistance Guide for a complete list of products and their designated chemical exposure information.

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TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Result
Tensile Strength	ASTM D 638	4,000 psi
Tensile Strength	ASTM C 307	2,650 psi
Compressive Strength	ASTM D 695	17,600 psi
Compressive Strength	ASTM D 579	12,600 psi
Bond Strength To Concrete	ASTM D 4541	>400 psi
Shear from Steel Plate	MIL D 3134	1,050 psi
Impact Strength	MIL D 3134	Passing No Chipping, Cracking or Delaminating
Hardness	ASTM D 2240 Shore D	75 - 80
Elevated Temperature	MIL D 3134	No Slip or Flow
Electrical Conductivity		Non-Conductive
Flexural Strength	ASTM D 790	6,300
Linear Expansion	ASTM D 696	2×10^{-5}
Indentation	MIL D 3134	.025 Max
Abrasion Resistance	ASTM D 4060	0.15 gr Taber Abrader C 17 1000 gram load, 1000 Cycles
Coefficient of Friction Smooth	ASTM D 2047	0.7
Water Absorption, max	ASTM D 570	0.04%
Flammability	ASTM D 635	Self Extinguishing
Flame Spread NFPA-101	ASTM E 84	Class A
Anti-Microbial Resistance	ASTM G 21	Passes
Yellow Index	ASTM D 1925	<15 @ 2,000 hours
Toxicity		Non-Toxic USDA Approved
VOC Content		Zero

(Note: Pot Life is shorter at higher temperatures. Do not use below 55°F or above 95°F.)

SLIP RESISTANCE & CLEANABILITY

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

CLEANING AND DISINFECTING

Cleaning and disinfecting compounds and cleaning techniques may affect the color, the 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, the gloss, or texture, modification of the materials and/or procedures are required. For more information contact the Hallemite's Technical Service Department or refer to Hallemite's Maintenance Guideline for Epoxy Flooring Systems.

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be profiled, clean, sound and dry. Please refer to the master "Guideline Instructions for Concrete Substrate Surface Preparation" for more information.

APPLICATION METHOD/SPREAD RATE

Apply with a roller, squeegee or trowel. See installation instruction sheets for a complete guideline.

CONCRETE MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymer systems to ensure a long lasting, durable installation. Please refer to the master "Guideline Instructions for Concrete Substrate Surface Preparation – Appendix B" for more information.

LIMITATIONS

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound and dry.

GUIDELINE SPECIFICATIONS

Refer to the master "Specifiers Guide" for a three part specifier's guideline.

DRAWINGS AND DETAILS

Standard engineered drawings and details are available for drains, coves, transitions, etc. Please refer to the "Useful Information" section of the Hallemite product book for actual drawings.

PACKAGING

- **1 Gallon Cans and 5 Gallon Pails**
- **Aggregate is available in 50 lb bags**

CAUTION

Follow the SDS for proper personal protective equipment to use when handling the product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

HEF – PB/01