

## HEF – CONTROL JOINT SEMI-RIGID EPOXY FILLER

### *Control Joint and Non-Structural Crack Filler System*

#### PRODUCT DESCRIPTION

HEF – CONTROL JOINT FILLER is a two component, 100% solids, semi-rigid epoxy. It is designed to reinforce and protect joint nosing and filling non-structural cracks on interior concrete slabs.

HEF – CONTROL JOINT FILLER was developed specifically as a control joint filler and non-structural crack filler for industrial, institutional and commercial concrete floor slabs to prevent joint edge deterioration when the joint is subjected to impact loads from hard wheeled tires and forklifts.

HEF – CONTROL JOINT FILLER can be used on all types of interior joint and non-structural cracks, but may separate at or near the bond line of the concrete or tear cohesively when subjected to movement from shrinkage or deflection. Separation or tearing normally does not affect the reinforcement “function” of the material.

HEF – CONTROL JOINT FILLER is not an elastomeric expansion material or a waterproofing material. It reinforces the joint nosing and is designed to minimize spalling and excessive wear of the joint. HEF - CONTROL JOINT FILLER provides a smooth transition from one slab to the next and therefore minimizes damage to forklifts and other equipment.

#### ADVANTAGES

- Reinforces Control Joints and Extends the Life of the Concrete Floor
- Provides a Smooth Transition from One Slab to the Next, Extending the Service Life of Forklifts and Other Equipment
- Excellent Low Temperature Performance
- Durable and Long Lasting
- Resistant to Mold, Mildew, and Fungi (does not promote bacterial growth)
- Resistant to Mechanical Wear

#### PRODUCT INFORMATION

| Mix Ratio                         | A:B        | 1:1                        |
|-----------------------------------|------------|----------------------------|
| Color                             | Pourable   | Clear                      |
|                                   | Towelable  | White                      |
| Potlife                           | 150 gr     | 30 Minutes, Min.           |
| Working Time                      | 1 Gallon   | 20 Minutes, Min.           |
| Open to Traffic                   |            | 6 – 10 Hours               |
| Packaging                         | Unit Sizes | 2 Gal Kit (1A:1B)          |
|                                   |            | 10 Gal Kit (5A:5B)         |
| Storage Temperature               |            | 55°F to 90°F               |
| Shelf Life<br>Unopened Containers |            | 1 Year<br>From<br>Mfg Date |
| VOC                               |            | Zero                       |

#### PRODUCT SELECTION

- **“HEF CJP (POURABLE)”**  
Available in Standard Pigment Colors  
Lt Grey, Grey, Tile Red or White  
Also Available in Clear  
Note: Will Amber Over Time
- **“HEF CJT (TROWELABLE)”**  
Non-Sag Gun Grade

#### TYPICAL PHYSICAL PROPERTIES

@ 75°F (23°C)

| Physical Property              | Test Method                           | Result             |
|--------------------------------|---------------------------------------|--------------------|
| Tensile Strength, min          | ASTM D 638                            | >800 psi           |
| Tensile Elongation<br>at break |                                       | >50%               |
| Compressive Strength, min      | ASTM D 695                            | 1,800 psi          |
| Bond Strength, min             | ASTM D 4541                           | >400 psi           |
| Impact Strength                | MIL D 3134                            | Passing            |
|                                | No Chipping, Cracking or Delaminating |                    |
| Hardness                       | ASTM D 2240<br>Shore D                | 50 – 55            |
| Water Absorption, mas          | ASTM D 570                            | 0.2%               |
| Flammability                   | ASTM D 635                            | Self Extinguishing |

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

## SURFACE PREPARATION

Concrete substrate must be sound and durable, and free of dirt, curing compounds, oils, laitances, and other contaminants. New concrete should be cured a minimum of 28 days. Suitable preparation methods include sandblasting, water cutting, grinding and sawing. See ACI 503 for more details.

## 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.

## 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.

## MIXING and APPLICATIONS

Premix A and B. Mix A and B together per the manufacturer’s mix ratio for 3 to 5 minutes, with a Jiffy type mixer at 350 to 400 RPM.

Saw cuts, in most slabs should be a minimum of 2 inches or more in depth. For superior performance, place fine 1/8” to 1/4” silica sand ( US Sieve 40 mesh or smaller) at the bottom of the joint and fill joint until there is slight convex crown with HEF - CONTROL JOINT FILLER.

HEF - CONTROL JOINT FILLER material shrinkage is negligible, however some material may “drain” from the joint creating a concaved joint filler line. If this is noticed while the material is still fluid, dust with silica sand to bring the surface back to level or reapply HEF - CONTROL JOINT FILLER. After cure, abrade with sandpaper or a wire brush and re-top with HEF - CONTROL JOINT FILLER.

**Note:** Compressive backer rods are not normally recommended for joint reinforcing applications.

### 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.

## LINEAR FEET PER U.S. GALLON

| JOINT DEPTH IN INCHES | YIELD IN FEET @ WIDTH 1/4 INCHES | YIELD IN FEET @ WIDTH 1/2 INCHES |
|-----------------------|----------------------------------|----------------------------------|
| 1”                    | 77.0                             | 38.5                             |
| 1 1/4”                | 61.6                             | 30.8                             |
| 1 1/2”                | 51.3                             | 25.7                             |
| 1 3/4”                | 44.0                             | 22.0                             |
| 2”                    | 38.5                             | 19.3                             |
| 2 1/4”                | 34.2                             | 17.1                             |
| 2 1/2”                | 30.8                             | 15.4                             |
| 2 3/4”                | 28.0                             | 14.0                             |
| 3”                    | 25.7                             | 12.8                             |
| 3 1/2”                | 22.5                             | 11.2                             |
| 4”                    | 19.3                             | 9.7                              |
| 4 1/2”                | 17.4                             | 17.4                             |
| 5”                    | 15.4                             | 15.4                             |

## CLEANING AND DISINFECTING

Cleaning and disinfecting compounds and cleaning techniques may affect the color, gloss, or texture of an epoxy joint filler 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.

## 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 – Control Joint Filler 1703-1