

## PRODUCT DATA

7 07 92 00 **Joint Sealants****EPOLITH<sup>®</sup>-P AND EPOLITH<sup>®</sup>-G****Two-part flexible epoxy joint fillers****Description**

Epolith<sup>®</sup>-P and Epolith<sup>®</sup>-G are two-part 100% solids epoxy joint fillers. Self-leveling Epolith<sup>®</sup>-P provides an abrasion- and puncture-resistant seal suitable for high-traffic horizontal joints. Gun-grade Epolith<sup>®</sup>-G provides a pick-and puncture-resistant seal for sloped and vertical joints.

**Yield**

See page 3 for charts.

**Packaging**

Epolith<sup>®</sup>-P and Epolith<sup>®</sup>-G:  
2 gallon (7.56 L) units (1 gallon [3.78 L] Part A and 1 gallon [3.78 L] Part B)

**Color**

Gray

**Shelf Life**

2 years when properly stored

**Storage**

Store in unopened containers in a clean dry area out of direct sunlight. Elevated temperatures will shorten shelf life. Protect from freezing.

**Features**

- Chemical resistant
- Stiff yet resilient
- 100% solids
- Cut and pick resistant

**Benefits**

- Suitable for many industrial environments
- Absorbs floor vibration and wheel impact; reinforces joint edges to prevent spalling in heavy-duty areas
- Does not shrink; fills joints completely and reinforces side walls
- Provides tough, durable filling material for joints in jails and prisons

**Where to Use**

## APPLICATION

- Saw cuts, control joints in concrete substrates
- Nonmoving cracks

## LOCATION

- Horizontal (Epolith<sup>®</sup>-P)
- Sloped (Epolith<sup>®</sup>-G)
- Interior
- Above grade

**How to Apply****Surface Preparation**

1. Concrete should be fully cured. Allow sufficient time for initial shrinkage of the concrete to take place (ideally 90 – 120 days).
2. Joint surfaces must be structurally sound, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials, and other foreign matter.
3. Clean concrete and other masonry where necessary by grinding, sandblasting, or wire brushing. Expose a sound surface free of contamination and laitance.

**Mixing**

1. Epolith<sup>®</sup>-P and Epolith<sup>®</sup>-G are two-component systems and must be thoroughly mixed before use. Following joint preparation, combine and mix Parts A and B. In order to maintain a correct mixing ratio, the entire contents of Part B must be mixed thoroughly with the entire contents of Part A. Use a separate, clean container of appropriate size.
2. With a slow-speed drill (80 – 100 rpm) and slotted paddle, mix Epolith<sup>®</sup>-P for 5 – 7 minutes.
3. With a slow-speed drill (80 – 100 rpm) and slotted paddle, mix Epolith<sup>®</sup>-G for 8 – 10 minutes.
4. During mixing, make sure that the paddle reaches the bottom and scrapes the side of the container several times. Also, scrape the paddle itself to ensure thorough mixing. To avoid whipping air into the material, keep the paddle blade below the surface of the Epolith<sup>®</sup> material.

## Technical Data

### Composition

Epolith®-P and Epolith®-G are two-component pourable (P) and gun-grade (G) epoxy sealants.

### Compliances

- USDA compliant for use in meat and poultry areas

### Typical Properties

PROPERTY	VALUE
<b>Mixing ratio</b> , by volume	1 to 1
<b>Pot life</b> , minutes at 75°F (24°C)	40 – 55
<b>Cure time</b> , hrs.	
Foot traffic	4
Vehicular traffic	24
<b>Application temperatures</b> , ° F (° C)	≥ 55 (13)

### Test Data

PROPERTY	RESULTS		TEST METHODS
	Epolith®-P	Epolith®-G	
<b>Tensile Strength</b> , psi (MPa)	655 (4.5)	900 (6.2)	ASTM D 638
<b>Elongation</b> , %	75	50	ASTM D 638
<b>Hardness</b>			
Shore A	85	90	
Shore D	34	50	
<b>Slant Shear Strength</b> , psi (MPa)			
	–	865 (6.0)	ASTM C 882
	–	112 (0.8)	ASTM C 321

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

## Application

1. Pour Epolith®-P from a spouted can or apply by a professional bulk-loading caulking gun. Trim excess material within 24 hours.
2. Apply Epolith®-G by a professional bulk-loading gun. Fill joints from the bottom up using a properly sized nozzle. Proper tooling assures the correct bead configuration and a neat joint. Equally important, it ensures maximum adhesion to the sides of the joint. For best results, dry tool or dampen tool with Reducer 990. DO NOT use water or soapy water.

### Clean Up

Clean all tools with Reducer 990 or xylene before epoxy cures. Cured material must be removed mechanically.

## For Best Performance

- Do not install Epolith®-P and Epolith®-G at temperatures below 55° F (13° C).
- Do not use Epolith®-P and Epolith®-G in expansion joints.
- Not intended for constant immersion.
- Not intended for areas subject to prolonged or strong chemical attack.
- Not designed for exterior use.
- Cure time must be extended in cool conditions.
- Clean, dry silica sand may be used to seal cracks in the base of the joint if approved by the specifier. However, Sonneborn® recommends that the minimum Epolith® P or Epolith® G application be 2/3 the depth of the joint or 1" (25 mm), whichever is greater.
- Do not install over backer-rod.
- On vertical applications, joint width or depth should not exceed 1/2" (13 mm).
- Mechanically roughen Epolith®-P and Epolith®-G before painting.
- Epolith®-P and Epolith®-G may yellow in the presence of unvented artificial heat or high intensity lighting. This does not affect sealant performance.
- Concrete will shrink at varying rates over an extended period of time—up to a year or more. Slabs may also settle. The sooner Epolith®-P or Epolith®-G is installed after concrete placement, the greater the likelihood of adhesion loss or splitting from shrinkage or settlement. To repair, simply refill with additional Epolith®-P or Epolith®-G and protect from traffic until cured.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

**Yield Linear ft/gal (m/L)**

JOINT DEPTH, IN (MM)	LINEAR FT/GAL (M/L) AT 3/16" (5 MM) JOINT WIDTH	LINEAR FT/GAL (M/L) AT 1/4" (6 MM) JOINT WIDTH
1 (25)	102 (31)	77 (23)
1-1/2 (38)	68 (20)	51 (15)
2 (51)	51 (15)	38 (11)
2-1/2 (63)	41 (12)	30 (9)

**Health and Safety**

EPOLITH®-P PART A

EPOLITH®-G PART A

**Warning**

Epolith®-P Part A contains epoxy resin, silica, crystalline quartz.

Epolith®-G Part A contains epoxy resin, diisooctyl phthalate.

**Risks**

May cause dermatitis and allergic responses. Potential skin sensitizer. Nose, throat and respiratory irritant when heated. Over exposure may cause headache, nausea and vomiting. Ingestion may cause irritation of mouth, throat and stomach. Repeated or prolonged overexposure may cause injury to the liver and kidneys. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**Precautions**

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Prevent breathing vapors. DO NOT take internally. Use impervious gloves, goggles and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. Empty container may contain hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

**First Aid**

In case of eye contact, flush thoroughly with water

for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

**Proposition 65**

Epolith®-P and Epolith®-G Part A: This product contains material listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

**VOC Content**

EPOLITH®-P

0.03 lbs/gal or 3 g/L, when components are mixed.

EPOLITH®-G

0.0 lbs/gal or 0.0 g/L, when components are mixed.

EPOLITH®-P PART B

EPOLITH®-G PART B

**Danger**

Epolith®-P Part B contains alhyl amine blend, 4-nonylphenol; diisooctyl phthalate, polyamide resin, tetraethylene pentamine.

Epolith®-G Part B contains alhyl amine blend, 4-nonylphenol; polyamide resin, tetraethylene pentamine.

**Risks**

May cause chemical burns and blisters. Strong skin sensitizer. Severe eye irritant. May cause permanent corneal injury and even blindness. Overexposure may cause headache, nausea and vomiting. Ingestion may cause irritation and burns of mouth, throat and stomach. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**Precautions**

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Avoid breathing vapors. DO NOT take internally. Use impervious gloves, goggles and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection. Empty container may contain hazardous residues. Observe all label warnings until container is commercially cleaned or reconditioned.

**First Aid**

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

### Proposition 65

EPOLITH®-P AND EPOLITH®-G PART B: This product contains materials listed by the state of California as known to cause cancer, birth defects, or other reproductive harm.

### VOC Content

EPOLITH®-P

0.03 lbs/gal or 3 g/L, when components are mixed.

EPOLITH®-G

0 lbs/gal or 0 g/L, when components are mixed.

**For medical emergencies only,  
call ChemTrec (1-800-424-9300).**

### BASF Construction Chemicals, LLC – Building Systems

889 Valley Park Drive  
Shakopee, MN, 55379

[www.BuildingSystems.BASF.com](http://www.BuildingSystems.BASF.com)

**Customer Service** 800-433-9517  
**Technical Service** 800-243-6739



LIMITED WARRANTY NOTICE: Every reasonable effort is made to apply BASF exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, BASF MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and BASF shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the BASF Technical Manager.

This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, BASF disclaims all CONDITIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. BASF SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. BASF reserves the right to make any changes according to technological progress or further developments. It is the customer's responsibility and obligation to carefully inspect and test any incoming goods. Performance of the product(s) described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for any such testing. Reference to trade names used by other companies is neither a recommendation, nor an endorsement of any product and does not imply that similar products could not be used.

**For professional use only. Not for sale to or use by the general public.**

Form No. 1017983 9/07  
Printed on recycled paper including 10% post-consumer fiber.

© 2007 BASF  
Printed in U.S.A.