

PRODUCT DATA

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

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

Yield

See page 3 for charts.

Packaging

Epolith®-P and Epolith®-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®-P)
- Sloped (Epolith®-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®-P and Epolith®-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®-P for 5 – 7 minutes.
3. With a slow-speed drill (80 – 100 rpm) and slotted paddle, mix Epolith®-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® 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
Mixing ratio , by volume	1 to 1
Pot life , minutes at 75°F (24°C)	40 – 55
Cure time , hrs.	
Foot traffic	4
Vehicular traffic	24
Application temperatures , ° F (° C)	≥ 55 (13)

Test Data

PROPERTY	RESULTS		TEST METHODS
	Epolith®-P	Epolith®-G	
Tensile Strength , psi (MPa)	655 (4.5)	900 (6.2)	ASTM D 638
Elongation , %	75	50	ASTM D 638
Hardness			
Shore A	85	90	
Shore D	34	50	
Slant Shear Strength , 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.

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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).**

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