

Sonneborn®

Sealant Systems



SONOLASTIC®

EPOLITH®-P AND EPOLITH®-G

Two-part flexible epoxy joint fillers

Features

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

Benefits

- Absorbs floor vibration and wheel impact
- Ideal for reinforcing joint edges of heavy-duty floors to prevent spalling
- Suitable for many industrial environments
- No shrinkage, fills joints completely and reinforces side walls
- Tough, durable filling material for joints in jails and prisons

Where to Use Epolith®-P and Epolith®-G

- Interior concrete
- Horizontal (Epolith®-P)
- Sloped areas (Epolith®-G)
- Saw cuts/control joints
- Nonmoving cracks

How to Apply Epolith®-P and Epolith®-G

Surface Preparation

- 1 Concrete should be fully cured. Sufficient time should be allowed 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, curing and parting compounds, membrane materials, and other foreign matter.
- 3 Concrete and other masonry must be cleaned 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 container of appropriate size.
- 2 With a slow-speed drill (80 - 100 rpm) and slotted paddle, mix **Epolith®-P** for 5 to 7 minutes.
- 3 With a slow-speed drill (80 - 100 rpm) and slotted paddle, mix **Epolith®-G** for 8 to 10 minutes.

- 4 During the process, it is important that the paddle reaches the bottom and scrapes the side of the container several times. Also, the paddle itself should be scraped to ensure thorough mixing. To avoid whipping air into the material, the paddle blade must be kept below the surface of the Epolith® material.

Application

- 1 **Epolith®-P** can be poured from a spouted can or applied by a professional bulk-loading caulking gun. Excess material should be trimmed within 24 hours.
- 2 **Epolith®-G** is applied 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

- Epolith®-P and Epolith®-G should not be installed at temperatures below 55°F (13°C).
- Epolith®-P and Epolith®-G should not be used 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 inch (25 mm), whichever is greater.
- Do not install over backer-rod.
- Mechanically roughen Epolith®-P and Epolith®-G before painting.
- On vertical applications, joint width or depth should not exceed 1/2" (13 mm).
- 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 version of this data guide is being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by ChemRex® personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

Technical Data

Compliances

- USDA compliant for use in meat and poultry areas

Typical Properties

	Epolith®-P and Epolith®-G
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) and above

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

Order Information

Packaging

Epolith®-P and Epolith®-G

- 2 gallon (7.56 L) unit
(1 gallon [3.78 L] Part A and
1 gallon [3.78 L] Part B)

Shelf life is 2 years when stored in unopened containers under normal conditions.

Color

- Gray

Test Data

Property	ASTM	Epolith®-P	Epolith®-G
Tensile Strength, psi (MPa)	ASTM D 638	655 (4.5)	900 (6.2)
Elongation, %	ASTM D 638	75	50
Shore A hardness		85	90
Shore D hardness		34	50

Epolith®-G Slant Shear Strength, psi (MPa)

ASTM C 882	865 (6.0)
ASTM C 321	112 (0.8)

Coverage

Joint Depth	Linear Ft. per Gallon (m/L)	
	Joint Width	
	3/16" (5 mm)	1/4" (6 mm)
1" (25 mm)	102 (31)	77 (23)
1 - 1/2" (38 mm)	68 (20)	51 (15)
2" (51 mm)	51 (15)	38 (11)
2 - 1/2" (63 mm)	41 (12)	30 (9)

Warning

Epolith®-P Part A contains bisphenol A/epichlorohydrin resin, silicon dioxide, titanium dioxide, calcium carbonate

Epolith®-G Part A contains bisphenol A/epichlorohydrin resin, diisooctyl phthalate, silicon dioxide, titanium dioxide, talc

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.

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®-G
When components are mixed, this product contains 0.0 g/L or 0.0 lbs/gal.

Epolith®-P

When components are mixed, this product contains 3 g/L or 0.02 lbs/gal.

Danger

Epolith®-P Part B contains polyamide resin blend, aliphatic amines, nonyl phenol, tetraethylenepentamine

Epolith®-G Part B contains tetraethylene pentamine, polyamide resin blend, aliphatic amines, nonyl phenol, silicon dioxide, talc

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
When components are mixed, this product contains 3 g/L or 0.02 lbs/gal.

Epolith®-G

When components are mixed, this product contains 0.0 g/L or 0.0 lbs/gal.

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

Limited Warranty Notice

Every reasonable effort is made to apply ChemRex® 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, CHEMREX® MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and CHEMREX® 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 ChemRex® Technical Manager.



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ChemRex®

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