

100% SOLIDS, SEMI-RIGID, EPOXY JOINT FILLER

DESCRIPTION

EP-FLEX is a two-component, 100% solids, moisture-insensitive joint filler and crack filling material.

APPLICATIONS

EP-FLEX is used to fill joints in industrial floors exposed to hard wheeled traffic and to fill Epoxy Grout Expansion Joints. EP-FLEX is useful for contraction/construction joints that are cut or formed. EP-FLEX may also be used as a crack filling material for damaged or spalled cracks.

ADVANTAGES

- Pourable consistency
- Cures on damp surfaces
- Easy to mix - 1:1 ratio
- Self-priming
- Moisture insensitive
- Allows moderate joint movement
- Does not embrittle with age
- Shaves easily

COMPLIANCES

- VOC compliant, 0 g/L
- Made in America
- Meets U.S.D.A. requirements for incidental food contact

PACKAGING

20.3 oz cartridge

- side by side cartridge
- 12 cartridges per case

1-gallon unit

- Component A: (1) ½-gallon can
- Component B: (1) ½-gallon can

2-gallon unit

- Component A: (1) 1-gallon can
- Component B: (1) 1-gallon can

10-gallon unit

- Component A: (1) 5-gallon pail
- Component B: (1) 5-gallon pail

Appearance of Components: A - Grey, B - Dark Amber

Shelf Life: 2 years in original unopened container (12 months for cartridges)

Storage: 40°F to 90°F in dry and dark conditions

Temperature Considerations: IMPORTANT! Epoxy Resins are temperature sensitive and care should be taken to condition all components to between 65°F to 85°F for a minimum of 24 hrs. prior to mixing and placement. Temperatures colder than stated range increase viscosity of resins and inhibit mixing and flow of materials. Temperatures warmer than stated range decrease viscosity of resins, hasten the cure and reduce the working time. Mixing and curing at less than ideal temperatures, <60°F or >95°F, will require special considerations.

COVERAGE

Lineal Feet / Gallon of Mixed EP-FLEX

		Width						
		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
Depth	1/2"	308.0	154.0	102.7	77.0	61.6	51.3	38.5
	3/4"	205.3	102.7	68.4	51.3	41.1	34.2	25.7
	1"	154.0	77.0	51.3	38.5	30.8	25.7	19.3
	1-1/4"	123.2	61.6	41.1	30.8	24.6	20.5	15.4
	1-1/2"	102.7	51.3	34.2	25.7	20.5	17.1	12.8
	1-3/4"	88.0	44.0	29.3	22.0	17.6	14.7	11.0
	2"	77.0	38.5	25.7	19.3	15.4	12.8	9.6

CURE TIME

Use the table below to determine minimum cure times:

Laboratory Tests	Results
D2471 Gel Time	30 minutes
Tack Free Time	6 hours
Initial cure @ 75° F	24 hours*

*Allow 48-72 hours depending on temperature before opening to vehicular traffic.

INSTALLATION

Surface Preparation (new concrete): Joints to be filled must be clean, free of curing compounds and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds and any other foreign material that may cause a problem with bond. Abrasive cleaning and mechanical removal methods, such as a diamond grinding wheel, are recommended. Area must be free of all dust and debris prior to installation.

Surface Preparation (existing concrete): In existing concrete, the old joints must be routed out to remove old material and widen, if necessary.

Mixing: CARTRIDGE: Remove the protective cap from the adhesive cartridge and insert the cartridge into the recommended dispensing tool. Before attaching the mixing nozzle, balance the cartridge by dispensing a small amount of material until both components are flowing evenly. Screw the provided mixing nozzle on to the cartridge (do not modify mixing nozzle). Confirm that internal mixing element is in place prior to dispensing adhesive. Begin squeezing a small amount of material from the mixing nozzle onto a disposable surface until the material extruded is a smooth uniform gray color with no streaks. Material with an off color or streaking is not properly mixed and will not set properly or perform as expected. Do not use this part for installation. Once the proper mixture is achieved, discard the material that was initially extruded from the nozzle per federal, state, and local regulations, then begin installation. **BULK:** Premix each component, then mix equal volumes of Component A and Component B for 3 minutes with a low speed drill (300 rpm), jiffy mixer, or paddle. Mix only what can be used during the pot life.

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Placement: Fine clean sand may be used to close off small shrinkage cracks in the bottom of joints prior to placement of EP-FLEX. In accord with ACI 302, semi-rigid epoxy fillers should be installed full depth in saw cut joints and at least 1" deep in formed joints. For best results apply material between 65°F to 85°F. EP-FLEX can be installed with a caulking gun or poured into the joint from a suitable container. Two passes may be required, as pourable leveling materials will settle in the joint. The second pass must be made within 12 hours at 75°F. Ultimately, the filled joint should be flush with the floor surface. Another installation technique is to overfill the joint, then once tack free, cut the EP-FLEX flush with a razor knife. A heat gun can facilitate cutting EP-FLEX if it has hardened. Avoid overheating the cured EP-FLEX.

LIMITATIONS

- For professional use only
- Do not thin with solvents
- EP-FLEX should not be installed on new concrete floors until maximum concrete shrinkage has occurred in accord with ACI 302. The longer the time period allowed for curing of the concrete prior to installation of EP-FLEX, the better the performance.
- EP-FLEX should not be installed until the building is under permanent temperature control.
- Always test a small amount of EP-FLEX to ensure that the product is mixed properly and thoroughly, and the material will harden properly before proceeding with the installation.
- Epoxies may yellow, discolor, or chalk upon exposure to strong sources of Ultra-Violet radiation such as from sunlight, and some types of industrial artificial lighting.
- Substrate temperatures should be a minimum of 40°F.
- Do not expose stored or uncured product to cold or hot temperatures below 40°F, or above 90°F for any length of time.
- Consult E-Chem representative when mixing or placing outside of the temperature recommendations listed.

CLEAN UP

EQUIPMENT: Uncured material can be removed with C-Clean100 or approved solvent. Cured material can only be removed mechanically.

MATERIAL: Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations.

CAUTIONS

READ SDS PRIOR TO USING PRODUCT!

- Component A: Irritant
- Component B: Corrosive
- Product is a strong sensitizer. Use of safety goggles and chemical resistant gloves are recommended.
- Use in a well-ventilated area and avoid breathing vapors
- Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate.
- Avoid skin contact
- Keep out of reach of children

FIRST AID

EYE CONTACT: Flush immediately with water for at least 15 minutes. Contact physician immediately.

RESPIRATORY CONTACT: Remove person to fresh air.

SKIN CONTACT: Remove any contaminated clothing.

Remove epoxy immediately with a dry cloth or paper towel. Solvents should not be used as they carry the irritant into the skin. Wash skin thoroughly with soap and water.

IF INGESTED: Do not induce vomiting. If swallowed give water to drink. Seek medical treatment immediately.

GENERAL: Remove contaminated soaked clothing immediately. In the event of persistent symptoms receive medical treatment.

CURED EPOXY RESINS ARE INNOCUOUS.

WARRANTY

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. This warranty and guarantee are expressly in lieu of all others, express or implied, including any implied warranty of merchantability or fitness for a particular purpose and may not be extended by representatives or any persons, written sales information, or drawing in any manner whatsoever. While the manufacturer recommends uses for the product based on tests believed reliable, no warranties, express or implied, or guarantees can be given as to particular methods of use or application, nor can performance be warranted, expressly or impliedly, or guaranteed under special conditions. Distributors, salespersons or company representatives are not authorized to extend or vary any warranties or guarantees beyond those outlined herein, nor may the manufacturer's or seller's limitation of liability be waived or altered in any manner whatsoever.