

BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER

DESCRIPTION

BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER is a 100% solids, two part, "hard rubber-like" epoxy formulation designed for filling holes, cracks, expansion joints, construction joints, etc. in concrete floors. The semi-rigid cured property of BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER will support the concrete edges of joints better than soft, flexible type joint compounds. BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER has sufficient resilience to allow expansion of concrete floors when installed as recommended. It retains resilience at temperatures as low as 10°F. The mixture is easily poured into cracks and joints or injected by caulking gun equipment. BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER cures tack-free overnight for light traffic, 1 - 2 days for heavy duty use.

BENEFITS

- Easy to Pour or Inject
- No Exudation on Surface
- Easy to Use 1:2 Mix Ratio
- No Shrinkage
- Semi-rigid Even at Low Temperatures

TYPICAL USES

- Construction Joints
- Isolation Joints
- Expansion Joints
- Shrinkage Cracks
- Stress Cracks
- Holes

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to the master "**Chemical Resistance Chart**" for actual resistance to specific chemicals/reagents.

GUIDE SPECIFICATIONS

This product is part of the BASIC POLYMERS family of polymer systems. Please refer to the master "**Specifier's Guide**" for complete three part guide specs in multiple formats.

CLEANING

This product is considered a low maintenance flooring solution, however, certain textures and service environments do require certain procedures. Please refer to the master "**Cleaning Guide**".

SURFACE PREPARATION

This product requires preparation in order to perform as expected. Substrate must be roughened, clean, sound, and dry. Please refer to the master "**Surface Preparation Guide**" for more information.

APPLICATION METHOD

BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER is typically poured into cracks and joints. "Bulk" type caulking guns can also be used.

LIMITATIONS

This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry. BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER contains modified cycloaliphatic amines and modified epoxy resins that can irritate skin. Use of rubber gloves, eye shield and good ventilation is recommended when using this product. If skin contact occurs wash with soap and water. If splashed in eye, open lids wide and flush with clear water for 15 minutes. Call physician for advice.

PACKAGING

BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER is available in 1 gallon cans and 5 gallon pails.

DRAWINGS AND DETAILS

Standard CAD drawings and details are available for coves, drains, breaches, transitions, etc. Please refer to the master "**Drawings and Details**" guide for actual drawings.

MOISTURE CONCERNS

Moisture vapor transmission in the slab should be measured prior to application of polymeric systems to ensure a long lasting, durable installation. Please refer to the master "**Moisture Guidelines**" for more information.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER

PHYSICAL PROPERTIES

Solids Content	100%
Mix Ratio by Volume, 1 :2	1 part hardener (A), 2 parts resin (B)
Mix Ratio by Weight	48 parts hardener (A), 100 parts resin (B)
Working Time, blended	70°F - 30 minutes 80°F - 22 minutes 90°F- 15 minutes
Shelf Life	1 year, unopened containers
Color, Hardener (A)	Hazy clear
Color, Resin (B)	Gray
Color, combined	Medium Gray
Viscosity	Pourable mastic consistency
Cured Hardness, Shore A	80
Shrinkage	None
Elongation	35 - 40%
Flashpoint,	Hardener (A) 220°F, Closed Cup Resin (B) 4 10°F, Closed Cup

MATERIAL REQUIREMENTS FOR FILLING JOINTS

Fork Lift Traffic Areas - The following procedure must be used to obtain good results:

- a) Fill the joint slot with dry bagged sand to a depth equal to 1/2 of the width of the joint. Do not tamp the sand.
- b) Fill the remainder with BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER.

Add dry bagged fine size sand after mixing the hardener and resin. This will increase the viscosity to stop seepage and flow on sloped floors. It will also increase the rigidity of the cured filler to provide more support for heavy loads and steel wheels. A trial batch should be tried by adding 50% sand such as Flintshot Blasting Sand. This mixture remains pourable, still easy to inject, and it will probably solve the above mentioned problems.

MIXING BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER

1. Use appropriate measuring containers for each component and pour into a mixing pail. Example: measure 1 quart hardener (A) and 2 quarts resin (B) and pour them into a 1 gallon mixing pail.
2. On small jobs, mixing with a wood paint stirrer can be done. Stir vigorously for approximately 3 minutes. Move stirrer in different directions and be certain to scrape the bottom and sides of pail while mixing use immediately.
3. On larger jobs it is much more convenient to use a slow speed 1/2" electric drill and an appropriate size Jiffler mixing attachment. Mix for approximately 2 -3 minutes, then scrape the sides and the bottom of the pail with a wood paint stirrer. Thorough blending of components is mandatory. Use immediately. Clean mixing attachment in a pail of solvent after each batch.

CONDITIONS FOR PROPER INSTALLATION

1. Ambient temperature should be above 50°F during installation and while curing.
2. Concrete floor and joint slots should be dry.
3. Concrete slabs should be allowed to cure 30 days before installing BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER. This waiting period is necessary due to the unpredictable shrinking characteristics of concrete while it is curing.
4. Depth of BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER in joint should be equal to half the width of the joint.
5. Joint slots must be cleaned free of all debris. Dust must be removed with an air hose or high powered vacuum.
6. SAW CUT JOINTS can be filled with a layer of dry sand (Ottawa Flintshot blasting sand is ideal) to stop BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER from seeping into shrinkage cracks that may have formed at the bottom while concrete was curing.
7. CONSTRUCTION JOINTS and KEYED JOINTS can be filled with dry bagged sand. This will prevent seepage into cracks and voids. Do not tamp the sand.
8. MATERIAL STORAGE - For best results store BASIC FLEXIBLE JOIN/CRACK FILLER at room temperature of 70°F. Higher temperatures reduce the "working time" dramatically. Lower temperatures extend the "working time" and curing period.
9. COLD FLOOR - The joints can be wanned with propane torches or weed burner type torch. Do not heat too rapidly or excessively.
10. MODIFICATION - BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER may require "in the field" modification due to unusual conditions such as:
 - a) BASIC FLEXIBLE EPOXY JOINT/CRACK FILLER continues to seep into cracks at the bottom of joints despite placing sand at bottom of joint.
 - b) Steep sloping floors.
 - c) Steel wheel traffic and very heavy loads on wider than usual joints..

Before using any BASIC POLYMERS product, be sure the Material Safety Data Sheet is read and understood.

