SEMI-RIGID EPOXY JOINT FILLER

PRODUCT DATA SHEET

SKU: 640-0000-02

SEMI-RIGID EPOXY JOINT FILLER IS A 2-COMPONENT, 100% SOLIDS JOINT FILLER FOR CONCRETE FLOORS. This unique formulation exhibits adequate rigidity to withstand heavy point load traffic while preventing brittleness over the life of the installation. Semi-Rigid Epoxy Joint Filler provides superior mechanical functionality when compared to polyurea or polyurethane joint fillers. Suitable for use in numerous types of applications where joint filling and protection of joints is required. May also be used as a crack filler.

USES:

- Concrete floors
- Parking & bridge decks
- Balconies
- Saw-cuts
- Seamless resinous flooring

ADVANTAGES:

- Rapid set time
- High tear strength
- Non-hazardous
- Will not become brittle
- High scratch resistance

PACKAGING & MIX RATIO:

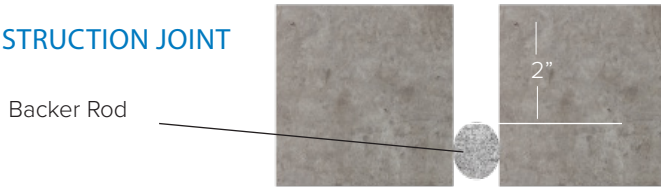
Semi-Rigid Epoxy Joint Filler: 2-gal kit

- 1-Gal Part A (3.7 L) and 1-Gal Part B (3.7L)
- Mix Ratio: 1-Part A to 1-Part B

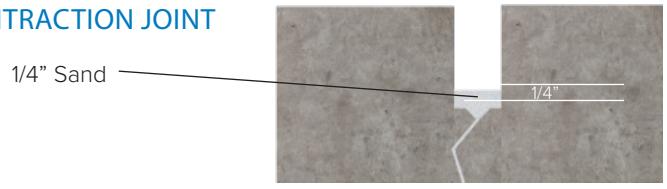
SUGGESTED APPLICATION:

- Should be applied to the full depth of the joint, or to a minimum of 2” in situations where the joint exceeds 2”.
- Shrinkage/contraction cracks greater than 2” deep may be filled with kiln-dried sand prior. Sand depth should not exceed 1/4”
- For Construction or Control Joints greater than 2” deep, foam backer rod may be used as a base.

CONSTRUCTION JOINT



CONTRACTION JOINT



RELATED PRODUCTS:

- Semi-Rigid Epoxy Joint Filler may be used with all Resinwerks floor coating products. It should be ground prior to top-coating.
- Semi-Rigid Epoxy Joint Filler is different from Resinwerks Kinetic Patch, which is a fast-drying rigid concrete repair binder.

GENERAL PRODUCT INFORMATION

Color:	grey
Solids Volume:	100%
V.O.C.:	0 g/l mixed
Gel Time:	30 Minutes @ 70° F
Tack Free:	60-90 Minutes @ 70° F
Reducer:	Not recommended
Application Temp:	50°F - 90°F
Environment:	For Interior or exterior
Shelf Life:	12-months factory sealed

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Trouser Tear Strength	ASTMD 1938	207 lb/in
DIE-C Tear Strength	ASTM D624	236 lb/in
Tensile Modulus	ASTM D638	21,545
Tensile Strength	ASTM D638	1910 psi filled
Elongation:	ASTM D638	77%
Hardness/Shore D	ASTM D2240	4 hr: 60, 24 hr: >75

PRODUCT COVERAGE PER GALLON

JOINT WIDTH	JOINT DEPTH	LINEAR FT / GAL
1/8”	1”	150
	2”	75
3/16”	1”	100
	2”	50
1/4”	1”	80
	2”	40
1/2”	1”	40

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INSTALLATION TIME-FRAME

- Resinwerks recommends that concrete be cured a minimum of 30-days prior to application to ensure adequate adhesion. Installation of Semi-Rigid Epoxy Joint Filler should be delayed as long as possible for new slabs (preferably a minimum of 60-90-days) to allow for concrete shrinkage and joint-opening. Ambient and slab temperatures should be stabilized to actual long-term operating temperature to limit any further concrete expansion or contraction.

JOINT PREPARATION

- All joints and cracks to be filled should be completely free of all laitance, dirt, debris, moisture and any other contaminants. Resinwerks recommends use of a dustless concrete saw with diamond blade (slightly wider than joint) to clean both sides of the joint.
- For construction joints deeper than 2", foam backer rod may be used as a base. Backer rod must be a minimum of 2" below the surface.
- Excessive contraction or shrinkage joints greater than 2" deep may be partially filled with kiln dried sand up to a thickness of 1/4", leaving an additional 2" for joint-fill.
- For elevated moisture vapor emission levels, please contact Resinwerks directly for guidance.
- For concrete substrates containing oil, animal fats, or other carbon based contaminants, slabs should be degreased appropriately using an enzymatic based concrete degreasing agent.

MIXING INSTRUCTIONS

- Use a slow speed drill mixer to mix both part A and Part B individually prior to mixing for 60-seconds. Mix 1 Part A to 1 Part B by volume for a minimum of 90 seconds.

APPLICATION INSTRUCTIONS

- Semi-Rigid Epoxy Joint Filler may be poured directly from a can, mixing vessel or otherwise. Bulk caulk guns, unused ketchup bottles and dual-component dispensing pumps are acceptable methods of application.
- Resinwerks recommends that joints are installed over two applications, with the initial application filling approximately 1/2 of the joint depth. Joints should be checked continuously for low spots resulting in material seeping into the deeper cracks. After approximately 60 minutes, re-apply the Joint Fill 100, slightly crowning above the joint.
- Allow material to cure and shave or grind smooth.

LIMITATIONS

- Not intended for true expansion or isolation joints.
- Not intended for exterior joints, sidewalks, etc.
- Do not apply over concrete experiencing ASR
- Do not apply to concrete < 3500 PSI compression strength
- Do not apply to new concrete < 28-days old
- This product is not recommended for immersion service.
- DEW POINT: Do not apply when dew point is within 5°F of the ambient temperature.
- Do not apply in temperatures under 40°F or over 90°F.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Epoxy products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

TECHNICAL ASSISTANCE

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RESINWERKS™ FLOOR COATING SYSTEMS