



FLEXFILL

Highly Flexible Epoxy Control Joint Filler

1. Product Description

a. **Basic Use:** Flexfill is a two-component epoxy joint filler designed to be used in control and construction joints in concrete industrial floors. Flexfill is a low modulus, highly flexible joint filler used in saw cut floor joints to provide support and load-bearing capacity at the joint edges. Flexfill is used in floor control joints where movement is possible due to thermal variations, shrinkage and deflection. It is available in two consistencies, self-leveling and gel. Flexfill is used in horizontal and vertical applications.

b. **Features/Benefits:**

- Low modulus, highly flexible joint filler may be installed as soon as three weeks after initial concrete slab placement.
- Rapid cure time drastically reduces operational downtime and allows for exposure to traffic in less than 24 hours.
- Contains no volatile solvents permitting interior application with no fire risk or toxic odors.
- Consists of 100% solids epoxy to allow total compliance with VOC regulations.
- Self-leveling consistency may be used to repair random cracking in concrete floor slabs due to long-term drying shrinkage.
- Protects joint edges from spalling due to impact from heavy loads and steel wheel traffic.
- Low modulus formulation accommodates floor slab movement due to thermal variations.
- Gel consistency permits use as a gouge-resistant joint sealant.

c. **Typical Applications:** Joints in penitentiaries where a gouge-resistant sealant is required, control and construction joints in industrial concrete floors, repair compound to seal and fill random cracking in floors.

d. **Limitations:** Do not use outside or as an expansion/contraction sealant. New concrete slabs must be at least 3 weeks old before installing Flexfill.

e. **Composition:** Flexfill is a two-component, low modulus, moisture insensitive, 100% solids epoxy joint filler and sealant.

f. **Color/Appearance:** Flexfill is available in medium gray and light reflective.

2. Packaging

Flexfill is supplied in two unit sizes containing the proper proportion of liquid components. Standard packaging information is shown below:

<i>Kit Size</i>	<i>Binder</i>	<i>Activator</i>	<i>Shipping Wt.</i>
<i>1-gal. kit (3.8 liter)</i>	<i>1/2 gal. (1.9 liter)</i>	<i>1/2 gal. (1.9 liter)</i>	<i>11 lbs. (5.0 Kg)</i>
<i>2-gal kit. (7.6 liter)</i>	<i>1 gal. (3.8 liter)</i>	<i>1 gal. (3.8 liter)</i>	<i>22 lbs. (10.0 Kg)</i>

3. Estimating/Coverage

1-gal. (3.8 liter) of Flexfill will fill the following typical joints:

<i>Joint Width</i>	<i>Joint Depth</i>			
	<i>3/4 in (19 mm)</i>	<i>1 in. (25 mm)</i>	<i>1-1/2 in. (38 mm)</i>	<i>2 in. (51 mm)</i>
<i>1/8 in. (3.2 mm)</i>	<i>205 ft. (62 m)</i>	<i>154 ft. (47 m)</i>	<i>103 ft. (31 m)</i>	<i>77 ft. (23 m)</i>
<i>1/4 in. (6.4 mm)</i>	<i>103 ft. (31 m)</i>	<i>77 ft. (23 m)</i>	<i>51 ft. (16 m)</i>	<i>39 ft. (12 m)</i>

4. Technical Data

a. **Shrinkage:** nil

b. **Hardness:** ASTM D 2240, Shore D 30

c. **Elongation:** 75%

d. **Mixing Ratio:** 1 to 1 by volume

e. **Cure Time:** Overnight

f. **Applicable Standards:** ACI-302, Guide for Concrete Floor Slab Construction, Section 4.10, Joint Materials.

5. Directions for Use

a. **Preparation:** Joint surfaces must be physically sound, thoroughly clean, free of oil, wax, loose paint, rust, scale and other deleterious material. Grinding, wire brushing or sandblasting may be required to expose a sound and clean bonding surface.

b. **Priming:** Most concrete substrates do not require a primer.

c. **Mixing:** Thorough blending of all components is essential. Use a power drill with a Metco Jiffy mixing blade. First, mix the binder separately; then, mix the activator separately. Next, add the mixed activator to the mixed binder and thoroughly blend for at least two minutes at revolution speeds that will not entrap air bubbles into the freshly mixed Flexfill epoxy compound.

d. **Application:** Before starting application, place electrical tape or similar tape at the bottom of the joint to prevent leakage of sealant. Flexfill is applied by simply caulking or pouring the material into properly prepared joints or cracks. Continue filling until the joint is completely full. If Flexfill settles into the joint or crack, apply additional sealant.

e. **Working Time/Pot Life:** Flexfill must be installed within 10 minutes after mixing. Large units of Flexfill may be split into smaller portions where usage is consistent with working time.

f. **Cure Time:** Flexfill will be tack free in 24 hours when applied at 72°F (22°C). Cure time is overnight.

g. **Clean-Up:** Use DL Solvent or Waterzall Concentrate and water for cleaning tools and equipment.

h. **Maintenance:** Flexfill surfaces should be cleaned with a Waterzall Concentrate and water solution. Waterzall may also be used at full concentrate strength to remove built-up deposits and stains. Flexfill may be reapplied to itself after proper surface preparation such as sanding or wire brushing.

6. Availability

Flexfill is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Flexfill is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



Metalcrete Industries

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