



Planibond[®] JF

Semi-Rigid Epoxy Joint Filler



DESCRIPTION

Planibond JF is a two-part, 100%-solids, moisture-tolerant, semi-rigid epoxy joint filler. *Planibond JF* meets ASTM C881 and ACI 302 requirements as well as USDA specifications for food-processing areas. The self-leveling *Planibond JF* is ideal for filling and sealing horizontal non-moving saw-cut control joints and random cracks.

FEATURES AND BENEFITS

- Comes in dual cartridge for easy use
- Self-leveling
- High-strength
- Moisture-tolerant
- Low-odor
- 100%-solids

INDUSTRY STANDARDS AND APPROVALS

ASTM C881 Grade 2, Classes B and C

ACI 302 requirements: Meets

USDA: Meets specifications for food-processing areas

Canadian Food Inspection Agency: Approved for use in food facilities

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
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MR Credit 5, Regional Materials*	Up to 2 points
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IEQ Credit 4.1, Low-Emitting Materials –	
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Adhesives & Sealants	1 point
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* Using this MAPEI product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

For Professional Use

- Use on interior horizontal surfaces.
- Use to fill and protect non-moving joints in industrial concrete floors subject to heavy dynamic and static loads.
- Use to protect and support joint edges, and reduce spalling around non-moving joints subject to hard-rubber wheel traffic.
- Use as a crack filler for concrete floors.

LIMITATIONS

- Use only between the temperatures of 40°F and 95°F (4°C and 35°C). Precondition material to between 65°F and 85°F (18°C and 29°C) before use. For temperatures above 85°F (29°C), take appropriate precautions to keep material cool.
- No additional ingredients are required. Do not thin with solvents.
- Do not use in joints designed as movement joints, in sealing joints or in cracks subject to hydrostatic pressure.
- Once cured, *Planibond JF* is nonbreathable.
- Consult MAPEI's Technical Services for installation recommendations regarding substrates and conditions not listed.

SUITABLE SUBSTRATES

- Properly prepared concrete at least 21 to 28 days old, stable and free of standing water
- Properly prepared MAPEI self-leveling toppings, screeds and repair mortars



SURFACE PREPARATION

- Thoroughly clean the joint of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, curing compounds, laitance, foreign substances and adhesive residue.
- Mechanically clean and prepare by sandblasting or hydro-blasting. For drilled holes, clean with bristle brush and vacuum out all loose material.
- Clean steel to white metal finish.
- Remove all standing water and dust with oil-free compressed air before installation.

Preparation of damaged saw cut joint or cracks wider than 1/16" (1,5 mm)

- Use a right-angle grinder with a diamond square cut or V blade to rout out crack to a nominal depth of at least 1/2" (12 mm), preferably 3/4" (19 mm). Be sure that remaining concrete along the edge is structurally sound.
- Remove any debris or loose elements with a vacuum or blow clear with oil-free compressed air.
- If required, fill the base with a maximum of 1/4" (6 mm) of silica sand (to avoid excessive material seepage).

MIXING

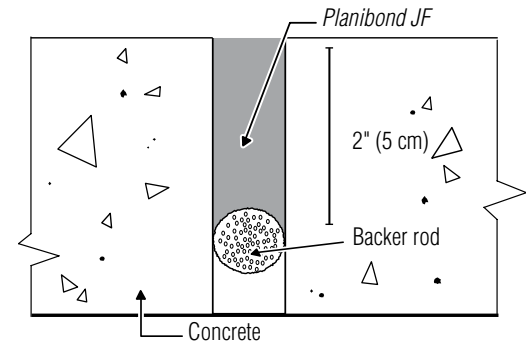
Note: Choose all appropriate safety equipment before use. Refer to MSDS for more information.

- Open cartridges after the preparatory work has been completed.
- *Planibond JF* is available in pre-filled cartridges that require application with correct static mixer and dual-cartridge dispensing gun to ensure adequate mixing of two parts.
- Cut the static nozzle tip to the preferred opening for the job and remove the plug from the cartridge; then attach the static mixer with the nut and tighten. Load the cartridge into the dispensing gun and dispense a bead of epoxy until the color is uniform. Once color is uniform, begin to place material under uniform pressure in joint or crack from the bottom up.
- Mix 2-gallon (7,57-L) kits by opening Part A and Part B containers and mixing each part individually. Pour full containers of Part A and Part B, or measure equal quantities of both parts (1:1), into a separate, clean mixing container. Mix with a low-speed drill (at 400 to 600 rpm) and "jiffy" mixer until blended uniformly.
- After the material is thoroughly mixed, it may be poured from the pail directly into the joint or crack, or may be placed with low-pressure application equipment.

PRODUCT APPLICATION

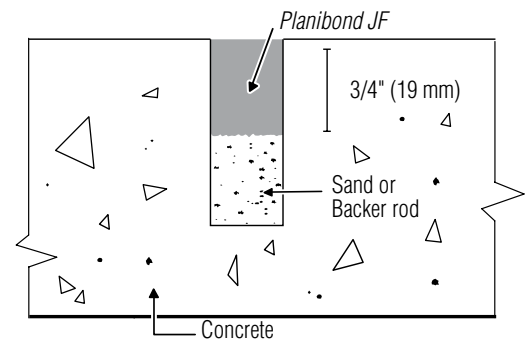
Construction (formed joints)

Apply *Planibond JF* at a depth of at least 2" (5 cm). In this case, the depth may be set by a non-compressible backer rod.

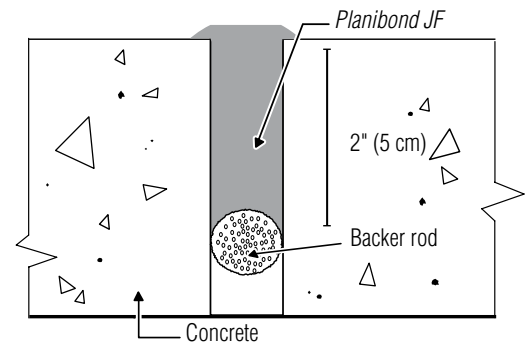


Saw-Cut Joints

Apply at a depth of 3/4" (19 mm), +/- 1/4" (6 mm).



Always overfill joints



Removing Excess Material

Planibond JF is typically cured within 4 to 6 hours of placement and ready for shaving. Cut flush with a razor knife or grind flush with the floor within 24 hours after placement.

CLEANUP

Clean equipment before *Planibond JF* cures to a hardened state using an appropriate solvent or cleaning material. Cured material can only be removed mechanically.

Product Performance Properties

Laboratory Tests	Results
Mix ratio (by volume)	1:1
VOCs (Rule #1168 of California's SCAQMD)	35.5 g/L
Modulus of elasticity (ASTM D695)	2,600 psi (17,9 MPa)
Brookfield viscosity (ASTM C881)	8,400 cps
Tensile strength (ASTM D638)	730 psi (5,03 MPa)
% elongation at break (ASTM D638)	65% to 75%
Absorption (ASTM D570)	0.32%
Gel time at 73°F (23°C) (ASTM C881)	30 minutes
Shrinkage (ASTM C883)	Pass
Shore "D" hardness (ASTM D2240)	50 to 75
Shore "A" hardness (ASTM D2240)	80 to 90
Thermal compatibility (ASTM C884)	Pass

Shelf Life and Application Properties

Shelf life – 20.2 U.S. oz. (600 mL) cartridge	1 year in original unopened container. Store at 40°F to 90°F (4°C to 32°C).
Shelf life – 2 U.S. gals. (7,57 L) kit	2 years in original unopened container. Store at 40°F to 90°F (4°C to 32°C).
Gel time	30 minutes

CSI Division Classifications

Maintenance of Concrete	03 01 00
Rigid Joint Sealant	07 92 16

Packaging

Product code	Size/color
46074	Cartridges – 20.2 U.S. oz. (600 mL) Part A: White Part B: Gray
46057	Kit: 2 U.S. gals. (7,57 L)

Approximate Product Coverage

Size	Yield
20.2 U.S. oz. (600 mL)	37 cu. in. (606 cm ³)

Planibond® JF



RELATED DOCUMENTS

Guide for Sealing Joints in Concrete Structures	ACI 504R-90
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Refer to MAPEI's Material Safety Data Sheet (MSDS) for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

We proudly support the following industry organizations:



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For the most current **BEST-BACKED™** product data and warranty information, visit www.mapei.com.

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