



Planibond JF[®]

Semi-Rigid, Epoxy Joint Filler

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Planibond JF is a two-part, 100%-solids, moisture-tolerant, semi-rigid, epoxy joint filler.

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 compliant
- Canadian Food Inspection Agency compliant

WHERE TO 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.

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.
- Remove all standing water and dust with oil-free compressed air before installation.

Preparation of damaged saw cut joints

- 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

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- 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 the joint 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 a 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

1. Apply *Planibond JF* in two successive lifts.
2. Fill the joint 2/3 of the depth and immediately overfill the joint for the remaining depth.
3. Allow to cure for at least 4 to 6 hours.
4. Remove the excess *Planibond JF* with a razor scraper within 24 hours of 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.

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.
- If excess is not removed within 24 hours of placement, grinding may be required.

Consult MAPEI's Technical Services for installation recommendations regarding substrates and conditions not listed.

Product Performance Properties

Laboratory Tests	Results
Mix ratio (by volume)	1:1
VOCs (Rule #1168 of California's SCAQMD)	35.5 g per 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 – Cartridge, 20.2 U.S. oz. (600 mL)	1 year in original unopened container. Store at 40°F to 90°F (4°C to 32°C).
Shelf life – Kit, 2 U.S. gals. (7.57 L)	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

Size/color
Dual cartridge: 20.2 U.S. oz. (600 mL)
Part A: White
Part B: Gray
Kit: 2 U.S. gals. (7.57 L)

Approximate Coverage

Depth of 3/8" (10 mm) saw-cut joint	Lineal feet (m) per 20.2 U.S. oz. (600 mL) dual cartridge	Lineal feet (m) per 2 U.S. gal. (7.57 L) kit
At 1" (2.5 cm)	8.2 ft. (2.50 m)	102 ft. (31.1 m)
At 1.5" (3.8 cm)	5.5 ft. (1.68 m)	68.4 ft. (20.8 m)
At 2" (5 cm)	4.1 ft. (1.25 m)	51 ft. (15.5 m)
At 2.5" (6.3 cm)	3.2 ft. (0.96 m)	41 ft. (12.5 m)
At 3" (7.5 cm)	2.7 ft. (0.82 m)	34.2 ft. (10.4 m)

Planibond JF



RELATED DOCUMENTS

Guide for Sealing Joints in Concrete Structures	ACI 504R-90
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Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

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Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability. **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:



MAPEI Headquarters of North America
 1144 East Newport Center Drive
 Deerfield Beach, Florida 33442
 1-888-US-MAPEI (1-888-876-2734) /
 (954) 246-8888

Technical Services
 1-888-365-0614 (U.S. and Puerto Rico)
 1-800-361-9309 (Canada)

Customer Service
 1-800-42-MAPEI (1-800-426-2734)

Services in Mexico
 0-1-800-MX-MAPEI (0-1-800-696-2734)

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