

Mapeflex Joint Filler PO 95/100

Two-Component, Semi-Rigid, Polyurea Joint Filler



DESCRIPTION

Mapeflex® Joint Filler PO 95/100 is a two-component, semi-rigid, polyurea joint filler used to fill and protect interior control and construction joints from rolling loads. *Mapeflex Joint Filler PO 95/100* is a quick-setting product for rapid turnaround of the application area back to traffic.

FEATURES AND BENEFITS

- Ease of application from a dual cartridge or from metered dispensing equipment
- Quick-setting
- Can be easily shaved from 30 minutes to 24 hours after application

WHERE TO USE

- For interior use only
- Use to fill non-moving, saw-cut control joints in industrial, retail and commercial concrete slabs.
- Use to fill non-moving, saw-cut construction joints in industrial, retail and commercial concrete slabs.
- Use to fill cracks in industrial, retail and commercial floors.

INDUSTRY SPECIFICATIONS

- Suitable for use in USDA and CFIA facilities
- Formulated to comply with ACI 302 recommendations for joint fillers

SURFACE PREPARATION

- Joints must be clean and free of loose particles, efflorescence, paints, tars, grease, asphaltic materials, bond breakers, curing compounds, wax, and any foreign substance or any conditions that may affect product performance or proper bonding.
- Joints should be cleaned with oil-free compressed air before being filled.
- Alternatively, joints can be re-cut and then vacuumed.
- For proper load transfer after filling, do not use sand or joint backing material to fill any portion of the joint. *Mapeflex Joint Filler PO 95/100* is intended to be used full-depth for the joint or crack being filled.

MIXING

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

- Condition all materials to between 75°F and 90°F (24°C and 32°C) for at least 24 hours before mixing.

Mixing via dual cartridge

1. When using a pre-filled two-component cartridge of *Mapeflex Joint Filler PO 95/100*, attach the supplied static mixer to the end of the dual cartridge.
2. Place the dual cartridge into a proper 22-U.S.-oz. (651-mL) two-component dispensing gun, ensuring that the static mixer end is facing up.
3. While the static mixer is facing upward, apply pressure to the dispensing gun and allow each part of *Mapeflex Joint Filler PO 95/100* to mix upward into the static mixer. Once a uniform color is obtained at the end of the static mixer, release pressure from the dispensing gun and immediately start applying product.

Mixing Part A and Part B

1. If using an automated metering pump, ensure that the pump is properly set to a 1:1 ratio for parts A and B and that the correct static mixer is used for proper mixing of parts A and B.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Place the mixed *Mapeflex Joint Filler PO 95/100* into the clean and dry joint cavity.
2. Ensure that only 2/3 of the depth is filled initially, allow the joint filler to level on its own and displace any air from under the joint.
3. Within 15 minutes of the initial filling, complete filling the joint by overfilling it slightly.
4. Allow curing.
5. After curing, remove the excess *Mapeflex Joint Filler PO 95/100* with a razor knife or grinder. Shave it flush with the concrete surface.
6. If *Mapeflex Joint Filler PO 95/100* cures longer than 24 hours, it may be required to use heat to soften the material for adequately shaving.

CLEANUP

- Because *Mapeflex Joint Filler PO 95/100* is a two-component polyurea, xylol or a similar solvent will be required for cleaning. Cured material can only be removed mechanically.

LIMITATIONS

- As recommended by ACI 302, joint fillers should be placed as late as possible after the placement of the concrete slab. Consult ACI 302 to fully understand the issues of placing joint fillers early.
- Condition all materials to a temperature between 75°F and 90°F (24°C and 32°C) for at least 24 hours before mixing and placement.
- No additional ingredients are required. Do not thin with solvents.
- For interior use only: *Mapeflex Joint Filler PO 95/100* is not UV-stable.
- Do not use in moving joints or cracks.

Product Performance Properties

Laboratory Tests	Results
Gel time	20 to 30 seconds
Shore "A" hardness – ASTM D2240	95 to 100
Tensile strength – ASTM D412	
At 7 days	807.86 to 900 psi (5.57 to 6.21 MPa)
Elongation – ASTM D412	
At 7 days	100% to 180%
Shore "D" hardness – ASTM D2240	46 to 58
Density – ASTM C905	8.152 lbs./gal. (0.9774 g/cm ³)

Shelf Life and Product Characteristics

Shelf life	1 year in original, unopened container at 73°F (23°C). Store at 40°F to 95°F (4°C to 35°C).
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Application Properties

at 73°F (23°C)

Time until tack-free	2 to 5 minutes
Initial cure	30 minutes
Final cure	7 days
Window for shaving	30 minutes to 24 hours after application
Ready for traffic	Light traffic: 30 minutes Heavy traffic: 1 hour

CSI Division Classification

Rigid Joint Sealant	07 92 16
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Packaging

Size/Color
Dual cartridge: 20.3 U.S. oz. (600 mL)
Part A, Pail: 5 U.S. gals. (18.9 L) Part B, Pail: 5 U.S. gals. (18.9 L)
Part A, Pail: 55 U.S. gals. (208 L) Part B, Pail: 55 U.S. gals. (208 L)

Approximate Coverage*

per 1 U.S. gal. (3.79 L)

Joint Width	Joint Depth				
	1" (2.5 cm)	1.5" (3.8 cm)	2" (5 cm)	2.5" (6.3 cm)	3" (7.5 cm)
3/32" (2.5 mm)	205 ft. (62.5 m)	136 ft. (41.5 m)	102 ft. (31.1 m)	82 ft. (25.0 m)	68 ft. (20.7 m)
1/8" (3 mm)	154 ft. (46.9 m)	102 ft. (31.1 m)	77 ft. (23.5 m)	61 ft. (18.6 m)	51 ft. (15.5 m)
3/16" (4.5 mm)	102 ft. (31.1 m)	68 ft. (20.7 m)	51 ft. (15.5 m)	41 ft. (12.5 m)	34 ft. (10.4 m)
1/4" (6 mm)	77 ft. (23.5 m)	51 ft. (15.5 m)	38 ft. (11.6 m)	30 ft. (9.14 m)	25 ft. (7.62 m)
3/8" (10 mm)	51 ft. (15.5 m)	34 ft. (10.4 m)	25 ft. (7.62 m)	20 ft. (6.10 m)	17 ft. (5.18 m)
1/2" (12 mm)	38 ft. (11.6 m)	25 ft. (7.62 m)	19 ft. (5.79 m)	15 ft. (4.57 m)	12 ft. (3.66 m)

Note: One U.S. gal. (3.79 L) of mixed material yields 231 cu. in. (3 785 cm³).

*For estimating purposes only

ADDITIONAL INFORMATION

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).

LEGAL NOTICE

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 www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

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.**

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For the most current product data and BEST-BACKEDSM warranty information,
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