

Advanced
Construction
Technologies

Fill Joints



AP JOINT FILL 800

Two Component, Semi-Rigid Joint Filler

Product Identifier

Product Name

AP JOINT FILL 800

AP JOINT FILL 800 is a two-component hybrid polyurea joint filler with fast reaction allowing for shave time in as little as 5 minutes. The fast reaction allows for minimal down time and facilities to be in operation quickly.

Supplier Details

Alchatek
4508 Bibb Blvd
Tucker, GA 30084
T: (404) 618-0438

Emergency Phone Numbers

Call CHEMTREC
Day or Night

1-800-424-9300
+1 703-527-3887

Description

AP JOINT FILL 800 is a two-component hybrid polyurea joint filler with fast reaction allowing for shave time in as little as 5 minutes. The fast reaction allows for minimal down time and facilities to be in operation quickly.

Uses

- Concrete joint filling
- General concrete repair applications requiring a fast-set semi-rigid product.
- Sealing random cracks/crack chasing

Advantages

- Fast cure/shaveable in 5 minutes
- Chemical cure
- Impact resistant
- Low temperature cure

Application

Note: the following are a few typical application procedures. In case of other jobsite parameters, please contact our technical department.

PREPARATION OF THE SUBSTRATE

Pressure wash or blow out entire repair substrate with oil free compressed air to remove all contaminations, loose debris, or existing coatings.

PREPARATION OF THE PRODUCT

Premix B component using a low-speed drill with a paddle mixer ensuring not to whip air into the product. If using cartridges, shake by hand.

AP JOINT FILL 800

TWO COMPONENT, SEMI-RIGID
JOINT FILLER

PREPARATION OF THE EQUIPMENT

Power on AP Joint Fill Machine and dispense material through plastic static mixer into a cup. Always perform cup test to ensure proper mixing ratio.

APPLICATION

- Address all spalls and cracks prior to installation. See AP Spall Repair 850 technical datasheet for more information.
- Clean the crack with oil free compressed air.
- If water-assisted saws were used in removal, wait for substrate to dry or apply heat to expedite this process. Blow off any cement dust or paste left behind by wet sawing. Only apply product to a clean dry substrate.
- Fill joints with AP Joint Fill 800. Overfill slightly and shave off excess when joint fill is tack-free.
- Touch up joint with grinder and ZEC wheel as necessary. Do not wait too long or material becomes difficult to shave.

REQUIRED TOOLS

- 10 Gallon (37.85 Liter) Units: AP Joint Fill Machine
- Cartridges: 300x300 cartridge gun
- Air compressor with oil separator
- Concrete grinder with ZEC wheel

CLEANING AND MAINTENANCE OF MACHINE

Disconnect A and B hoses from AP Joint Fill Machine after application. Pump excess material into pails tightly capping, sealing and saving for later use. Proceed to flush the AP Joint Fill Machine with AP Flush 121. Pump AP Flush 121 through hoses until clean flush is coming out, then recirculate back into A and B hoppers for 3 to 4 minutes. Do not mix A and B flush. Grease the gun at the gun grease zerk fittings. Pour 1 quart (0.95 liters) of motor oil into each empty hopper for storage.

COMPLIMENTARY PRODUCTS

Oven dry silica sand, shaving tool.

ADVICE / FOCAL POINTS

Cold temperatures may delay cure time. The product will cure between -20 – 120°F (-28.89 – 48.89°C). Exposure to UV will cause discoloration, but will not break down physical properties. Cohesive and adhesive separations are designed to occur and should not be considered a failure of the product. Solvent wipe and re-application is recommended for spot repairs.

LIMITATIONS

- Not for exterior use
- Not for use in expansion joints

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Technical Data

Physical Properties

| | | | |
|---------------------|--------|--------|-------|
| AP Joint Fill 800 | Part A | Part B | Mixed |
| Mix Ratio By Volume | 1 | 1 | |

| | | | |
|------------------|--------|--------|-------|
| Specific Gravity | 1.07 | 1.24 | 1.155 |
| Appearance | Liquid | Liquid | Solid |
| Color | Gray | Clear | Gray |

| | | | | |
|------------------|--|--|--|-------------|
| Density | 8.7 lb/gal (1.04 kg/dm ³) | 9.1 lb/gal (1.09 kg/dm ³) | 8.9 lb/gal (1.07 kg/dm ³) | ASTM D 1475 |
| Viscosity | 1,535 | 2,500 | Self Levelling | ASTM D 2196 |
| Working Time | - | - | 18 seconds | ERF-13-70 |
| Gel Time @ 77 °F | - | - | 30 seconds | ASTM D 2471 |

Properties will vary depending on application conditions.

Estimating Quantities

AP Joint Fill 800 occupies 231 cubic inches (3.79 dm³) per gallon (3.79 liters). Estimate 15% excess for overflow/shave for AP Joint Fill 800.

Packaging

- 10 Gallon (37.85 Liter) Units
- 11 x 11 fl. oz. (325 x 325 ml) Cartridges / Case of 12

Storage and Shelf Life

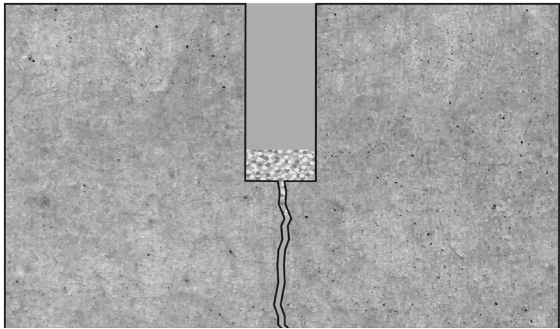
Store between 50° - 80° F (10° - 26°C). This product has 6 month shelf life from date of manufacture if stored in a dry warm place at 60° - 80° F (15° - 26° C) in original sealed containers. Lower temperature (below 60° F [15° C]) may cause a partial crystallization of the resin. If crystallization has occurred, heat the resin in its original container placing it into another container with hot water. Change water to keep it hot for a few hours. Cool down to 77° F (25° C). If viscosity of the resin is still higher than specified, repeat the procedure.

Safety Precautions

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on Alchatek.com. When in doubt contact Alchatek Technical Service.

AP JOINT FILL 800

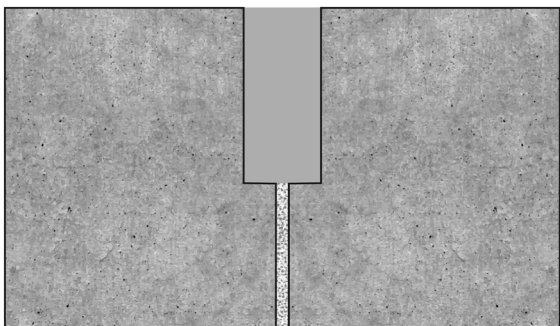
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2" (5.08 cm) deep saw cut.

Silica sand bed optional, no
backer rod.

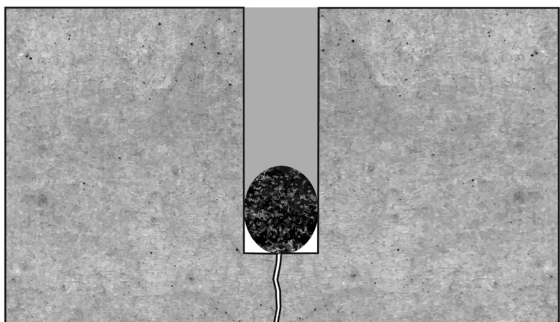
Control joint. (Saw cut to control location of crack. No
backer rod.)



Saw cut construction joint.

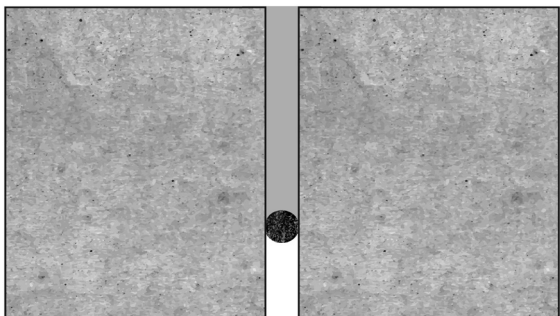
Silica sand under saw cut.

Construction joint that was later saw cut 2" (5.08 cm) deep.
(No backer rod.)



Minimum 2" (5.08 cm)
depth with backer rod.

Control joint. (Saw cut to control location of crack. With
backer rod below 2" (5.08 cm) mark.)



Minimum 2" (5.08 cm)
depth with backer rod.

Construction joint. (With backer rod below 2" (5.08 cm)
mark.)