



PlanisealTM RapidJoint 15

FOR
PROFESSIONAL
USE ONLY

Self-Leveling Polyurea Floor Joint Filler



DESCRIPTION

Planiseal RapidJoint 15 is a 100%-solids, two-component, rapid-curing, polyurea elastomer joint and crack filler. Planiseal RapidJoint 15 is designed for supporting non-moving joint nosings exposed to forklift and steel-wheeled traffic. Planiseal RapidJoint 15 features broad temperature capabilities, can address joint movement of 10% to 15%, and cures quickly so that repaired joints can be re-opened to traffic almost immediately after application. Designed with enhanced application characteristics, excess Planiseal RapidJoint 15 can be shaved easily, and will typically not leave a stain on surfaces adjacent to joints.

FEATURES AND BENEFITS

- Nonstaining on most concrete surfaces
- Shaves easily as early as 1 hour after placement
- Cures from -40°F to 130°F (-40°C to 54°C) and remains flexible at cold temperatures
- Accommodates up to 15% joint movement while remaining strong enough to protect joint nosings from damage due to heavy loading
- Odorless
- Resistant to petrochemicals

INDUSTRY STANDARDS AND APPROVALS

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials*.....	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants.....	1 point

* 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

- Warehouse floors subject to forklift and heavy steel-wheeled traffic
- Freezers and cold-storage rooms
- Manufacturing and industrial floors
- Wherever concrete floors require joint nosing support and fast return to service

LIMITATIONS

- Not for use in moving (expansion) joints
- Planiseal RapidJoint 15 will exhibit color change when exposed to ultraviolet (UV) light; however, no performance loss will take place.
- Apply only into horizontal joints and cracks – not vertical.

SUITABLE SUBSTRATES

- Sound, clean, stable and dry concrete at least 28 days old and free of ongoing shrinkage
- Non-moving joints and non-structural crack repairs on horizontal concrete substrates
- Exterior concrete substrates not subject to movement from thermal cycling



Planiseal[™] RapidJoint 15

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

SURFACE PREPARATION

1. While *Planiseal RapidJoint 15* is highly moisture-insensitive, joints must be free from water and dry on the concrete surface.
2. Clean debris and contaminants – including oils, loose materials and dirt – from the joint or crack to allow for good adhesion of the product. Expose clean rough concrete for best results.
3. If saw-cutting to rout the crack or clean the joint, remove all the dust from the prepared area. Vacuum or use oil-free compressed air to completely blow out all dust and debris.
4. Cold storage environments must have clean, frost-free concrete before installation.
5. Use an open-cell backer rod in the floor joints to ensure consistent depth of application and to avoid a 3-sided bond.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

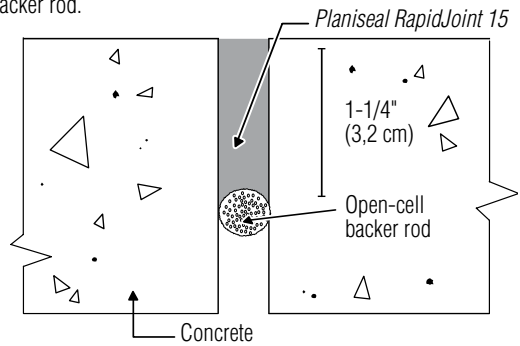
1. Precondition the material to 60°F to 85°F (16°C to 29°C) for 24 hours before application.
2. Shake the cartridge vigorously for 2 to 3 minutes.
3. Stand the *Planiseal RapidJoint 15* cartridge on end, remove the plug and attach the supplied static mixer. (During steps 1 to 3, maintain the cartridge standing on end until material application takes place. This will prevent the low-viscosity material from running out of the cartridge.)
4. Place cartridge in dual-cartridge dispensing gun (1:1 10.1 x 10.1 U.S. oz. [300 x 300 mL]).
5. Dispense a small amount of product in a small cup to ensure a homogenous mix at the nozzle before injecting material into the joint or crack.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Once the material has been prepared in the static mixer, begin dispensing. At first, dispense rapidly to equalize pressure between cartridges. Once material exits the nozzle and the mix is consistent, dispense with steady pressure.
3. Always overfill joints and cracks. Small divots also may be filled, provided that they are clean and prepared.
4. Close the area for traffic for about 1 hour until material can be shaved.

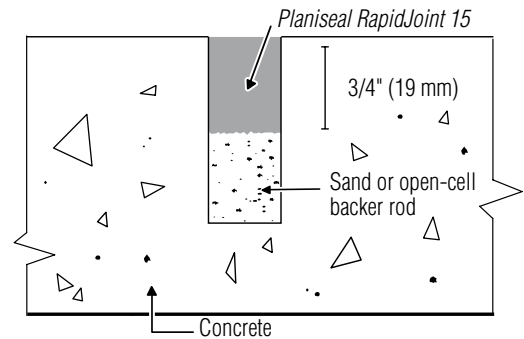
Construction (formed joints)

Apply *Planiseal RapidJoint 15* at a depth of at least 1-1/4" (3,2 cm). In this case, the depth may be set by an open-cell backer rod.



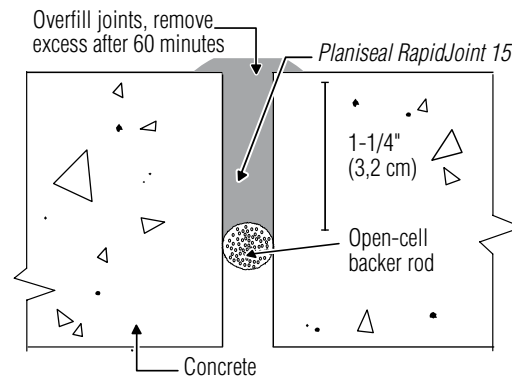
Saw-Cut Joints

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



Removing Excess Material

Planiseal RapidJoint 15 is typically cured within 60 to 90 minutes of placement and ready for shaving. Cut flush with a razor knife or grind flush with the floor within 24 hours after placement.



CLEANUP

- Cured material can only be removed mechanically.
- Excess liquid "A" and "B" material should be mixed together, allowed to cure, and then disposed of according to local regulations.

PROTECTION

- Use all appropriate safety equipment, including overalls or disposable Tyvek overalls, rubber gloves, safety glasses with splash guards, and rubber or leather boots.
- Do not use near high heat or open flame.

Product Performance Properties

Laboratory Tests	Results
Shore hardness – ASTM 2240	75 to 80A
Solids content	100%
VOC	28 g/L
Elongation – ASTM D412	> 450%
Tensile strength – ASTM D412	> 600 psi (4,14 MPa)
100% modulus – ASTM D412	> 270%
300% modulus – ASTM D412	> 435%
Tear strength – ASTM D624, Die C	150 pli
Tear abrasion – ASTM D4060*	840 mg loss

* Using H18 wheels, 1000 mg weight and 1000 cycles

Shelf Life and Application Properties

Pot life	0 minutes
Tack-free	3 minutes
Initial cure	60 minutes
Final cure	7 days
Shelf life	1 year
Storage conditions	Store between 55°F to 95°F (13°C to 35°C)

CSI Division Classifications

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

Packaging

Product code	Size and color
45274	20.2 U.S. oz. (600 mL) dual cartridge – 10.1 x 10.1 U.S. oz. (300 x 300 mL), light gray

Approximate Product Yield – lineal feet (meters) per 20.2 U.S. oz. (600 mL) dual cartridge

	Width 1/4" (6 mm)	Width 1/2" (12 mm)	Width 3/4" (19 mm)	Width 1" (2,5 cm)
Depth 1/2" (12 mm)	27 (8,23)	13 (3,96)	9 (2,74)	7 (2,13)
Depth 3/4" (19 mm)	18 (5,49)	9 (2,74)	6 (1,83)	4 (1,22)
Depth 1" (2,5 cm)	13 (3,96)	7 (2,13)	4 (1,22)	3 (0,91)

* Yield shown is for estimating purposes only. Actual jobsite yield may vary according to substrate conditions and setting practices.

Planiseal™ RapidJoint 15



Chemical Resistance

Excellent Resistance	Test Method
Ammonium hydroxide, 10%/20%	ASTM D3912*
Antifreeze	ASTM D1308*
Benzene	ASTM D1308*
Benzoic acid	ASTM D1308*
Butyl alcohol	ASTM D1308*
Butyl cellosolve	ASTM D1308*
Carbon dioxide	ASTM D1308*
Citric acid	ASTM D1308*
Diesel fuel	ASTM D3912*
Gasoline	ASTM D3912*
Hexane	ASTM D1308*
Hydraulic fluid	ASTM D3912*
Hydraulic oil	ASTM D1308*
Hydrochloric acid, 5%/10%	ASTM D3912*
Jet "A" fuel	ASTM D3912*
2-Methylbutane	ASTM D3912*
Methanol	ASTM D3912*
Mineral spirits	ASTM D1308*
Monobutyl ether	ASTM D1308*
Motor oil	ASTM D3912*
MTBE	ASTM D3912*
MTBE/gasoline, 5%	ASTM D3912*
NaCl/water, 10%	ASTM D3912*
Phosphoric acid, 10%	ASTM D3912*
Potassium hydroxide, 10%/20%	ASTM D3912*
Sodium bicarbonate	ASTM D1308*
Sodium chloride	ASTM D1308*
Sodium hydroxide, 10%/20%/50%	ASTM D3912*
Stearic acid	ASTM D1308*
Sugar/water, 10%	ASTM D3912*
Trisodium phosphate	ASTM D1308*
Vinegar	ASTM D1308*
Water	ASTM D3912*

Wash Down within 1 Hour	Test Method
Acetone	ASTM D1308*
Dichloroacetic acid	ASTM D1308*
Methylene chloride	ASTM D1308*
Methyl ethyl ketone	ASTM D1308*
Nitric acid, 20%	ASTM D1308*
Toluene	ASTM D3912*
Trichloroethylene	ASTM D1308*
Xylene	ASTM D1308*
Suitable for Spillage Conditions (rinse within 60 minutes)	Test Method
Ethylene glycol	ASTM D1308*
Lactic acid, 10%	ASTM D1308*
Suitable for Intermittent Contact up to 72 hours	Test Method
Chlorine (5000 ppm in water)	ASTM D1308*
Ethanol	ASTM D1308*
Phenol	ASTM D1308*
Skydrol	ASTM D3912*
Sodium hypochlorite, 10%	ASTM D1308*
Not Suitable for Contact	Test Method
Calcium hypochlorite	ASTM D1308*
Dimethyl formamide	ASTM D1308*
Sulfuric acid, 70%	ASTM D1308*

* Both ASTM D3912 & D1308 conducted at 77°F (25°C) for 1 year.

Refer to the 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.

Edition Date: January 21, 2010
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