

MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW)

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ADDENDUM No. 2  
April 6, 2026

PROJECT: Replacement of Emergency Doors at Metrorail and Metromover Stations  
Project No. TP-0000020837-R

BID DUE DATE: April 15, 2026; 02:00 P.M.

FROM: Miami-Dade County DTPW  
Capital Improvements Division  
111 NW First Street, 14<sup>th</sup> Floor  
Miami, FL 33128  
305.375.2930

TO: Prospective Bidders and Interested Parties

This Addendum forms part of the project solicitation documents and will be incorporated into the Contract Documents, as applicable. Insofar as the Original Contract Documents, Drawings and Specifications are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum, at the time of bid submittal to Miami-Dade County, in the space provided on the "Acknowledgement of Addenda Form" provided with the project solicitation documents. Failure to acknowledge receipt of all addenda may be cause for disqualification.

CHANGES TO TECHNICAL SPECIFICATIONS:

1. Volume II – Door Specifications: Include the door products required for roof doors at Riverwalk Station and Fifth Street Mover Station (see attached specifications).

**END OF ADDENDUM NO. 2**



Tiondra Wright,

Chief Capital Improvements Division

Department of Transportation and Public Works (DTPW)

AM:lh

c: Laura Hernandez, DTPW  
Antonio Chahine DTPW  
Caesar Suarez, SBD

Katherine Fernandez, DTPW  
Laurie Johnson, SBD  
Clerk of the Board

Renessa Gordon, DTPW  
Project File

**Door Products Required for Roof Doors at :**

**-Riverwalk Station**

**-Fifth Street Mover Station**

# Mapecem 102

Medium-Build, One-Component, Fast-Setting Mortar



## DESCRIPTION

*Mapecem*<sup>®</sup> 102 is a one-component, shrinkage-compensated, polymer-modified, fast-setting cementitious mortar with a corrosion inhibitor and silica fume. *Mapecem 102* is intended for the renovation and topping of horizontal concrete surfaces.

## FEATURES AND BENEFITS

- For concrete repair and topping applications from 1/4" to 2" (6 mm to 5 cm)
- *Mapecem 102* can be opened to foot and rubber-wheel traffic within 3 hours.
- Requires only the addition of water
- Can be applied using a trowel or screed

## WHERE TO USE

- For concrete repair and topping applications from 1/4" to 2" (6 mm to 5 cm), or extended up to 20% by weight for thicknesses from 2" to 6" (5 to 15 cm) with 3/8" (10 mm) thoroughly washed, sound, saturated surface-dry (SSD) pea gravel
- For renovating and resurfacing interior and exterior horizontal concrete surfaces found in residential, commercial and institutional structures that are subject to foot traffic and rubber-wheel traffic
- When properly mixed and installed, *Mapecem 102* has a residual moisture content of less than 2.5% at 24 hours, making it ideal for floor-covering applications in residential, commercial and institutional structures.

## SURFACE PREPARATION

- Concrete surfaces must be clean and free of loose particles, efflorescence, paint, tars, grease, asphaltic materials, bond breakers, curing compounds, wax and any foreign substance.

- Mechanically profile clean, sound and stable concrete surfaces to obtain a concrete surface profile (CSP) equal to or greater than #5 per ICRI Guideline #310.2R-2013.
- Clean any exposed steel reinforcement and coat with *Mapefer*<sup>™</sup> 1K or *Planibond*<sup>®</sup> 3C (see the respective Technical Data Sheets for details) to protect against corrosion.

## MIXING

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

1. Into a clean mixing pail, pour 4/5 of the recommended amount of cool, clean, potable water. See “Mixing ratio” in the chart below.
2. Slowly add *Mapecem 102* to the water while mixing, using a low-speed mixer.
3. Add as much of the remaining 1/5 of water as needed to achieve the desired consistency. Continue mixing for 4 minutes to achieve a smooth, homogenous consistency.

## PRODUCT APPLICATION

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Read all installation instructions thoroughly before installation.

1. Before application, ensure that the prepared concrete is SSD.
2. Apply with a trowel or a screed, with or without formwork (screed rail), on a horizontal surface.

## CURING

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- Cure with wet burlap or polyethylene sheet during the first 3 hours of curing. Alternately, apply a water-based curing compound conforming to ASTM C309.

## CLEANUP

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- Wash hands and tools promptly with water before the material hardens. Cured material must be mechanically removed.

## LIMITATIONS

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- Do not add other additives or cements to *Mapecem 102*.
- Do not use solvent-based curing compounds.
- Only use between 45°F and 95°F (7°C and 35°C).

## Product Performance Properties\*

Laboratory Tests	Results
<b>Compressive strength – ASTM C109 (CAN/CSA-A5)</b>	
3 hours	> 4,350 psi (30 MPa)
1 day	> 5,800 psi (40 MPa)
7 days	> 7,250 psi (50 MPa)
28 days	> 7,975 psi (55 MPa)
<b>Slant shear bond strength – ASTM C882</b>	
24 hours	1,450 psi (10 MPa)
7 days	1,740 psi (12 MPa)
28 days	2,175 psi (15 MPa)
<b>Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C)</b>	
1 day	> 750 psi (5.17 MPa)
7 days	> 1,150 psi (7.93 MPa)
28 days	> 1,350 psi (9.31 MPa)
<b>Shrinkage – ASTM C157, modified (typical results)</b>	
7 days, dry-cured	< -0.05%
28 days, dry-cured	< -0.06%
<b>Freeze/thaw resistance – ASTM C666-A (CAN/CSA A23.2-9B)</b>	
300 cycles	Good – 98% durability factor
<b>Resistance to de-icing salts – ASTM C672 (CAN/CSA A23.2-16C)</b>	
50 cycles	Very good – 0 rating, no scaling
<b>Permeability to chlorides – ASTM C1202 (AASHTO T277)</b>	
28 days	Very low – in the range of 100 to 1,000 coulombs (typical value is 160 coulombs)
VOC content	0 g per L

\* All tests performed at 72°F (22°C) and 50% relative humidity with 10% of mixing water

## Shelf Life and Product Characteristics

before mixing

<b>Shelf life</b>	1 year stored in original, unopened packaging in a dry, heated, covered and well-ventilated place
<b>Physical state</b>	Powder
<b>Color</b>	Gray

## Application Properties

Mixing ratio	2-3/4 U.S. qts. of water per 55-lb. bag (2.60 L per 24.9-kg bag) of <i>Mapecem 102</i>
Consistency	Screed mortar
Application temperature range	45°F to 95°F (7°C to 35°C)
Thickness per lift	1/4" to 2" (6 mm to 5 cm)
Pot life	20 to 30 minutes
Initial set – ASTM C191	50 minutes
Final set – ASTM C191	70 minutes
Open to traffic	3 hours

## CSI Division Classifications

Concrete Topping	03 53 00
Cast Underlayment	03 54 00

## Packaging

Size	Bag: 55 lbs. (24.9 kg)
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## Approximate Coverage\*\*

per 55-lb. (24.9-kg) bag

Yield	0.48 cu. ft. (0.0136 m <sup>3</sup> )
Coverage at 1/4" (6 mm) thickness	24.7 sq. ft. (2.29 m <sup>2</sup> )
Coverage at 1" (2.5 cm) thickness	5.8 sq. ft. (0.54 m <sup>2</sup> )
Coverage at 2" (5 cm) thickness	2.9 sq. ft. (0.27 m <sup>2</sup> )

\*\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions and setting practices.

## 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](mailto:sustainability_USA@mapei.com) (USA) or [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com) (Canada).

## WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

### 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](http://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.**

## CONTACT INFORMATION

### 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

U.S. and Puerto Rico:  
Flooring: 1-800-992-6273  
Concrete and heavy construction: 1-888-365-0614  
Canada:  
1-800-361-9309

### Customer Service

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

**Edition Date: September 11, 2024 MK 3000100 (24-2541)**

For the most current product data and BEST-BACKED<sup>SM</sup> warranty information, visit [www.mapei.com](http://www.mapei.com).

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# Planiseal WR 40

Water-Based, 40%-Silane, Penetrating Water  
Repellent



## DESCRIPTION

Planiseal® WR 40 is a water-based, 40%-silane, penetrating water repellent and sealer designed to protect concrete and masonry against moisture/chloride intrusion.

## FEATURES AND BENEFITS

- Penetrates deep into the substrate, chemically reacting to provide long-lasting protection against moisture and chloride intrusion
- Colorless and does not alter surface appearance or texture
- Breathable, allowing interior moisture to escape
- VOC-compliant with a water-based composition
- Easy to apply and one-component

## WHERE TO USE

- Parking, bridge and stadium decks
- Use on vertical and horizontal surfaces to protect from the intrusion of water
- Above- and on-grade, interior/exterior surfaces
- Precast, cast-in-place and prestressed concrete, block, stone and brick
- Driveways, sidewalks and walkways

## SUITABLE SUBSTRATES

- Existing and new, properly prepared and cured concrete and masonry substrates at least 28 days old

## SURFACE PREPARATION

All substrates must be structurally sound, dry, solid and stable.

- Remove all dust, efflorescence, oil, dirt, curing compounds, form release agents and any other contaminants before product application.
- Prepare concrete surface to achieve an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #1 to #2.
- Ensure that surfaces are dry for at least 24 hours before installation of *Planiseal WR 40*, to allow maximum penetration of the product.
- *Planiseal WR 40* will not seal cracks or voids. Crack control, patching and expansion joint filling should be performed before application of *Planiseal WR 40*.
- Mask all adjacent surfaces to prevent overspray or dripping.
- Allow recently repaired areas of mortar to cure for 72 hours before application of *Planiseal WR 40*. Before exposure to *Planiseal WR 40*, sealants should cure in accordance with the manufacturer's recommendations.

## MIXING

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

- *Planiseal WR 40* is ready to use. Stir the product thoroughly before and during application to ensure a uniform consistency and that no separation of the product takes place.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Apply *Planiseal WR 40* by a low-pressure, non-atomizing spray with an adequate delivery tip so that the surface being treated is properly wetted during application.
2. Alternatively, for horizontal surfaces, *Planiseal WR 40* can be poured and evenly distributed with a roller or broom.
3. Evenly flood the surface in a consistent manner with a low-pressure sprayer, roller or broom, ensuring an adequate overlap of material when applying. Saturate the surface, allowing for an overlap of 8" to 10" (20 to 25 cm). For applying *Planiseal WR 40* on vertical surfaces, start at the bottom of the wall and work upward.
4. If the surface is extremely porous, apply a second coat before the surface dries but once the first application has been completely absorbed. Avoid puddling, and remove any excess material with a broom.

## CLEANUP

- Clean tools immediately after use with hot water. Dried residue should be cleaned with hot water and scrubbed with a plastic sponge.

## LIMITATIONS

- Apply *Planiseal WR 40* when ambient, material and substrate temperatures are in the range of 40°F to 95°F (4°C to 35°C).
- Use in well-ventilated areas.
- Do not apply *Planiseal WR 40* to a frost-filled surface or when temperatures are below 40°F (4°C).
- Do not allow puddling or surface buildup of *Planiseal WR 40*.
- Protect non-absorbent surfaces such as glass, metal, glazed brick and tile.
- Do not apply *Planiseal WR 40* in inclement weather, or when rain is anticipated within 12 hours of application.
- Protect the product from freezing. If it freezes, discard it in accordance with local, state/provincial and federal regulations.
- Do not dilute *Planiseal WR 40*.
- Not for use as a waterproofing product

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

### Product Performance Properties

Laboratory Tests	Results
Depth of penetration	< 3/8" (10 mm)
Water absorption reduction, after immersion – ASTM C642	75.4%
Water absorption reduction, after boiling – ASTM C642	71.2%
Chloride ion content reduction (5-day air-dry) per NCHRP Report 244, Series II	85.6%
Water absorption reduction (5-day air-dry) per NCHRP Report 244, Series II	70.1%
Chloride ion content reduction per NCHRP Report 244, Series IV	86.7%
Waterproofing after abrasion per Alberta B388, Type 1b	67.1%
Moisture vapor transmission per Alberta B388, Type 1b	71.5%
VOCs (Rule #1113 of California's SCAQMD)	< 350 g per L
Active ingredients, by weight	40%
Density	0.95 g per cm <sup>3</sup>
Flash point	158°F (70°C)

## Shelf Life and Product Characteristics

before mixing

<b>Shelf life</b>	6 months when stored in original, unopened packaging at 40°F to 90°F (4°C to 32°C)
<b>Chemical composition</b>	Alkoxy silane
<b>Consistency</b>	Liquid
<b>Color</b>	Milky white (dries clear)

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

## Application Properties

<b>Drying time at 73°F (23°C)</b>	4 to 6 hours
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## CSI Division Classification

<b>Water Repellents</b>	07 19 00
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## Packaging

<b>Size</b>
Pail: 5 U.S. gals. (18.9 L)
Drum: 55 U.S. gals. (208 L)

## Approximate Coverage\*

Size	Coverage
Per 1 U.S gal. (3.79 L)	100 to 200 sq. ft. (9.29 to 18.6 m <sup>2</sup> )

\* Coverage varies depending on the porosity of the substrate.

## ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

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**Edition Date: January 30, 2024 MK 3007659 (23-2298)**

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visit [www.mapei.com](http://www.mapei.com).

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