

# Mapeguard Pre-Formed Ramp

Rigid, Lightweight, High-Compressive, Waterproofed Ramp



## DESCRIPTION

*Mapeguard® Pre-Formed Ramp* is part of MAPEI's line of shower system products. *Mapeguard Pre-Formed Ramp* is the quick and easy alternative for shower installations when a barrier-free, ADA-compliant, curbless shower installation is desired. Pre-formed, sloped, rigid and lightweight, it is made from high-density expanded polystyrene (EPS) and features a layered foam-honeycomb composition for superior compressive strength. Its waterproof attributes do not contribute to mold or mildew.

*Mapeguard Pre-Formed Ramp* features a high-quality bonded waterproof sheet membrane and can be cut to fit for customized sizing. *Mapeguard Pre-Formed Ramp* is for use under thin-set ceramic tile and dimension stone installations for both residential and commercial shower applications.

## FEATURES AND BENEFITS

- ADA-compliant, single slope
- Ramp slope height is from 1/4" to 1-5/8" (6 mm to 41 mm)
- Waterproof attributes that do not contribute to mold or mildew
- Easy to cut for customizable sizing
- Lightweight and durable: Made from high-density, expanded polystyrene (EPS)
- Easy to handle and install
- Waterproofed membrane surface that exceeds ANSI A118.10-S and is ready to receive tile

- Layered foam-honeycomb composition that provides enhanced rigidity and superior compressive strength
- Part of a single-source warranted system from MAPEI

## INDUSTRY STANDARDS AND APPROVALS

- Meets ANSI A118.10-S

## WHERE TO USE

- Interior use only
- Barrier-free, accessible, curbless shower installations
- Residential, light commercial and commercial bathrooms or wet areas
- Under ceramic tile and dimensional stone installations

## LIMITATIONS

- Do not use over substrates containing asbestos, presswood, particleboard, pressure or oil-treated plywood, Lauan plywood, Masonite, self-stick tile, metal or fiberglass surfaces, epoxy floors or dimensionally unstable materials.
- *Mapeguard Pre-Formed Ramp* is waterproof, but to maintain a waterproof installation, all joints and penetrations must be sealed and waterproofed. *Mapelastic® AquaDefense*, *Mapelastic Turbo* [NA] or *Mapeguard WP 200* sheet membrane is recommended.
- Do not use when hydrostatic pressure exists.
- Not for use in continuous use steam rooms
- Store *Mapeguard Pre-Formed Ramp* inside. Do not expose it to the elements.
- *Mapeguard Pre-Formed Ramp* must be covered with ceramic tile or stone; it is not approved as a wear layer. Use protection board for temporary cover prior to finishing.
- Do not use in applications where *Mapeguard Pre-Formed Ramp* will be exposed to temperatures of 165°F (74°C) or greater.
- Do not use premixed adhesive products such as organic adhesives (mastic) to set tile over *Mapeguard Pre-Formed Ramp*.
- Tiles must be suitable for wet-floor installations and have a minimum thickness of 7/32" (5.5 mm).
- For details on these methods or materials, contact MAPEI Technical Services before installation or design.
- Do not expose to solvents or other harsh chemicals.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required in seams, connections or corners, use an approved MAPEI waterproofing membrane.
- The honeycomb portion of the *Mapeguard Pre-Formed Ramp* is rated at 235 psi (1.62 MPa).
- Installation temperature range is 40°F to 90°F (4°C to 32°C).

## SUITABLE SUBSTRATES

- Concrete (cured for at least 28 days)
- Masonry cement
- Industry-approved exterior-grade plywood\*

- Cement backer units (CBUs) – see manufacturer's installation guidelines
- APA Sturd-I-Floor Exposure 1 OSB\*

\* *Interior use only*

## SURFACE PREPARATION

- All substrates must be structurally sound, flat, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- Level floor prior to shower tray installation. Any depressions should be filled with an appropriate MAPEI patching or leveling mortar. Make certain that there are no voids beneath the panel and that it is fully supported.
- For waterproofing applications, refer to the TCNA Handbook, ANSI standards and local codes for requirements.
- Follow all applicable industry standards and guidelines for installations within shower receptors, see the "Applicable Industry Codes, Standards and Guidelines" section in the TCNA Handbook.
- Surfaces must be structurally rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads (including concentrated loads) must not exceed  $L/360$  for thin-bed ceramic tile/brick installations or  $L/720$  for thin-bed stone installations where "L" = "span length."

See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

## PRODUCT APPLICATION

### Preparatory work

1. Ensure that walls are square and plumb for a proper fit of the ramp.
2. The subfloor under the ramp must be clean and level.
3. Dry-fit the ramp to make certain that it fits the area for installation and sits flush and level with floor. If it is paired with a foam tray, ensure that the ramp fits tightly against the tray.
4. If the ramp needs to be site-adjusted to fit the installation area, cut the ramp to the proper dimensions. Note: Cutting the ramp by reducing the slope depth or height will impact ADA compliance. Consult building codes for ADA compliance.
5. Waterproofing must be installed in all areas subject to water exposure.

### Installing Mapeguard Pre-Formed Ramp

Note: *Mapeguard Pre-Formed Ramp* can be installed at the same time or after installation of *Mapeguard Pre-Formed Shower Tray*.

1. Pre-measure and cut the *Mapeguard Pre-Formed Ramp* to the desired width and dry-fit it.
2. Using a  $3/4" \times 9/16" \times 3/8"$  (19 x 14 x 10 mm) U-notched trowel or  $1/4" \times 3/8" \times 1/4"$  (6 x 10 x 6 mm) square-notched trowel, apply a MAPEI polymer-modified large-and-heavy-tile thin-set mortar (rated as ANSI A118.4H or better, hereafter referred to as "MAPEI polymer-modified mortar") to the floor, edge of the ramp and wall.
3. Apply the MAPEI polymer-modified mortar to the bottom and edge connecting to the shower tray. Apply it to the ends of the ramp if needed per the installation design.

4. Embed the ramp into the MAPEI polymer-modified mortar.
5. Adjust the ramp to the desired position. The slope of the ramp should lead up to the shower tray/base with the 1-5/8" (4.1 cm) height of the ramp positioned level with the shower tray/base. Connect the ramp with edge of the shower tray, with the shower tray sloped toward the drain.
6. Carefully clean away excess MAPEI polymer-modified mortar.
7. Option A: Waterproof floor and joints with appropriate MAPEI waterproofing membrane. To achieve a waterproofed system, first fill any gap that is between 1/8" and 1/2" (3 and 12 mm) with a MAPEI polymer-modified mortar. When it is dry (appropriate for grouting per the mortar's Technical Data Sheet or TDS), proceed with *Mapelastic AquaDefense* or *Mapelastic Turbo* [NA] in combination with *Reinforcing Fabric* to seal all panel joints with a 3" (7.5 cm) overlap on both sides of the joint. Place fabric into wet liquid and apply pressure to the fabric, working out wrinkles or bubbles while forcing the waterproofing to come through the fabric. Overlap seams and ends of the fabric by 2" (5 cm). While fabric is still wet, apply additional liquid membrane over the fabric until completely covered. Let it dry completely.

Option B: *Mapeguard WP ST* waterproofing seaming tape can instead be used to waterproof the system along with an approved MAPEI polymer-modified mortar troweled with a 1/4" x 3/16" (6 x 4.5 mm) V-notched trowel. Press *Mapeguard WP ST* firmly into the mortar, with at least 2" (5 cm) on each side of the seam and embed the tape. Remove any trapped air and ensure full adhesion to the material by spreading the mortar from the inside out using a trowel or straight-edge with rounded corners.

8. Install tile or stone using an approved MAPEI polymer-modified mortar according to TCNA guidelines.

Note: For fast-track installations, use a MAPEI rapid-setting, polymer-modified large-and-heavy-tile mortar that is rated as A118.4FH or better.

Note: MAPEI mortars must meet the ANSI A118.4H, ANSI A118.11 or ANSI A118.15H standard or better, or be classified as at least ISO 13007 C2E or C2F.

Note: *Mapeguard Pre-Formed Ramp* adheres to the ADA-required slope ratio. Consult building codes for requirements related to full ADA compliance, including support bars and handrails in shower installations.

## EXPANSION JOINTS

- Provide for expansion and control joints as specified per TCNA Method EJ171.
- Do not cover any expansion joints with mortar.

## CLEANUP

- Refer to the TDSs of the appropriate sealant, polymer-modified mortar and waterproof membrane for recommended cleanup procedures.

## PROTECTION

- Do not store in direct sunlight.
- Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- Maintain a temperature between 45°F and 90°F (7°C and 32°C) for at least 24 to 48 hours after the installation.
- Do not leave *Mapeguard Pre-Formed Ramp* exposed after installing, protecting it from foot traffic and other trades before installation of tile or stone.

- Protect the installation from spills, contamination and damage before and during tilework to ensure an adequate bond with the mortar.
- If the finished surface is punctured or penetrated during installation or from jobsite construction, recoat the punctured area and 2" (5 cm) beyond the affected area with *Mapelastic AquaDefense* or *Mapelastic Turbo* [NA] in combination with *Reinforcing Fabric*, or install *Mapeguard WP 200* waterproofing sheet. Refer to the TDSs for instructions.
- Refer to the TDSs of the selected MAPEI waterproofing, tile-setting and grout products regarding protection and curing requirements.

### Product Properties

|                                                    |                                                          |
|----------------------------------------------------|----------------------------------------------------------|
| <b>Size and material (length x width x height)</b> | 48" x 16" x 1/4" to 1-5/8" (122 cm x 41 cm x 6 to 41 mm) |
| <b>Composition</b>                                 | Layers of foam and honeycomb                             |

### Product Performance Properties

| Test Method                                                     | Test Results                                       |
|-----------------------------------------------------------------|----------------------------------------------------|
| ASTM E96, Procedure E – water vapor transmission                | Residential                                        |
| ANSI A118.10 / ASTM D4068 – Waterproofness                      | Passed                                             |
| <b>ANSI A118.10 – Shear bond strength</b>                       |                                                    |
| 7 days dry, 7 days immersed                                     | Passed                                             |
| ASTM D1621 Procedure E – compressive strength at 10% deflection | 235 psi (honeycomb portion)                        |
| ASTM G21 – Resistance to fungi                                  | Passed                                             |
| IAPMO PS106 – Fungus and microorganism growth resistance        | Passed                                             |
| Density –ASTM D3575                                             | 3 lbs. per cu. ft. (48.055 kg per m <sup>3</sup> ) |

### Shelf Life and Product Characteristics

|                                                           |                                                                                              |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Shelf life of polystyrene foam-honeycomb composite</b> | 5 years when stored in original, unopened packaging at 73°F (23°C) and 50% relative humidity |
| <b>Color of polystyrene foam-honeycomb composite</b>      | White and blue                                                                               |
| <b>Maximum temperature exposure</b>                       | 165°F (74°C)                                                                                 |

## Packaging

| Product Size                                                                                    | Packaging Size                                      |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Dimensions: 48" x 16"<br>(122 cm x 41 cm)<br><br>Ramp height: 1/4" to 1-5/8"<br>(6 mm to 41 mm) | Box: 24" x 18-3/4" x 3-3/4"<br>(61 x 47.6 x 9.5 cm) |

## RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for tile and stone installation systems\*\*

\*\* At [www.mapei.com](http://www.mapei.com)

## ADDITIONAL INFORMATION

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: May 20, 2026 MK 3000525 (26-1787)

For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
visit [www.mapei.com](http://www.mapei.com).  
All Rights Reserved. © 2026 MAPEI Corporation.

