WATERTIGHT PROTECTION

MAPEI’s waterproofing products for tile/stone installation
**Mapelastic® AquaDefense**

**DESCRIPTION**
Premium waterproofing and crack-isolation membrane

**INDUSTRY STANDARDS AND APPROVALS**
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile) and A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)
- ASTM: C627 (Robinson) service rating for extra heavy
- ASTM: E-96 Method E, meeting requirements of < 0.5 perms
- IAPMO (File #3996): Listed for use as shower-pan liner
- ICC Evaluation Service Report ESR 3474

**APPLICATION PROPERTIES at 73°F (23°C) and 50% relative humidity**
- **Flash point (Seta flash)**: Nonflammable
- **VOCs (Rule #1113 of California’s SCAQMD)**: 0 g per L
- **Drying time between first and second coats**: When dark green and dry to the touch
- **Drying time after second coat (before applying ceramic tile or stone)**: About 30 to 50 minutes (when dark green and dry to the touch)
- **Drying time before flood-testing**: After 12 hours
- **Final dry thickness (2 coats)**: About 20 mils at minimum (about credit-card thickness)
- **Freeze/thaw stability (liquid)**: Up to 5 cycles at 32°F (0°C)

**FEATURES AND BENEFITS**
- Very quick drying: Install tile after 30 to 50 minutes of drying time.
- Time-saving: Flood-test as shower-pan liner after 12 hours of drying time.
- Apply with roller or brush – easy to install over flat, curved or irregular surfaces
- Bonds to a wide range of surfaces; convenient, user-friendly and versatile
- No odor; great for confined spaces
- Prevents in-plane floor cracks from transmitting through tile or stone

**PRODUCT CODES**
- **U.S.**
- 01953: 1 U.S. gal. (3.79 L)
- 01963: 3.5 U.S. gals. (13.2 L)
- 01968: 5 U.S. gals. (18.9 L)
- 01977: Drum: 55 U.S. gals. (208 L)

**Mapelastic® Turbo**

**DESCRIPTION**
Premium, Rapid-Drying, Waterproofing and Crack-Isolation Membrane

**INDUSTRY STANDARDS AND APPROVALS**
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile) and A118.12 high-performance standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)
- ASTM: C627 (Robinson) service rating for extra heavy
- ASTM: E-96; Procedure E – Desiccant Method at 100°F (37.8°C). Meeting requirements of < 0.5 perms.
- IAPMO-listed for shower-pan liners
- IAPMO File #3996
- ICC Evaluation Service Report ESR 3474

**SHELF LIFE AND APPLICATION PROPERTIES at 73°F (23°C) and 50% RH**
- **Shelf life**, when stored in original, unopened packaging: Part A powder: 1 year
- **Physical state**: Powder and liquid
- **Drying time between first and second coats**: 50 to 60 minutes
- **Drying time after second coat (before applying ceramic tile or stone)**: 60 to 90 minutes
- **Drying time before flood-testing**: After 3 to 4 hours
- **Final dry thickness**: About 30 mils at minimum
- **Freeze/thaw stability of Part B latex**: Do not allow to freeze.
- **Storage**: Store in cool, dry place

**FEATURES AND BENEFITS**
- Rapid-setting: Tile in as little as 90 minutes
- Flood test after 3 to 4 hours.
- Works on substrates where moisture is present up to 12 lbs. (5.44 kg) or 95% relative humidity (RH)
- Pot life of greater than 45 minutes
- Durable and flexible, bonding to a wide range of surfaces
- Applied with roller or brush – easy to install over flat, curved or irregular surfaces
- Prevents in-plane floor cracks up to 1/8” (3 mm) from transmitting through tile or stone
- Use of reinforcing fabric optional

**PRODUCT CODES**
- **U.S.**
- 1676309: Kit: 20 lbs. (9.07 kg)
- 1676310: Part A, Bag: 22 lbs. (9.98 kg)
- 1676408: Part B, Pail: 2 gals. (7.57 L)
**Mapelastic® WaterStop**

**DESCRIPTION**
Waterproofing and crack-isolation membrane

**FEATURES AND BENEFITS**
- Fast-drying: Install tile after 60 to 90 minutes of drying time.
- Flood-test as a shower-pan liner after 12 hours of drying time.
- Easy to apply with roller or brush; water cleanup
- Bonds to a wide range of surfaces; convenient, user-friendly and versatile
- No odor; great for confined spaces
- Prevents in-plane floor cracks from transmitting through tile or stone

**INDUSTRY STANDARDS AND APPROVALS**
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile) and A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)
- ASTM: C627 (Robinson) service rating for extra heavy
- IAPMO (File #3996): Listed for use as shower-pan liner
- ICC Evaluation Service Report ESR 3474

**SHELF LIFE AND APPLICATION PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf life</td>
<td>2 years when stored in original, unopened container</td>
</tr>
<tr>
<td>Flash point (Seta flash)</td>
<td>Nonflammable</td>
</tr>
<tr>
<td>Color</td>
<td>Medium red when wet; dark red when dry</td>
</tr>
<tr>
<td>Drying time between first and second coats</td>
<td>About 20 to 30 minutes (when dark red and dry to the touch)</td>
</tr>
<tr>
<td>Drying time after second coat</td>
<td>Total drying time for two coats about 60 to 90 minutes (when second coat is dark red and dry to the touch)</td>
</tr>
<tr>
<td>Drying time before flood-testing</td>
<td>After 12 hours at 73°F (23°C) and 50% relative humidity</td>
</tr>
<tr>
<td>Final dry thickness (2 coats)</td>
<td>25 to 30 mils minimum</td>
</tr>
<tr>
<td>Freeze/thaw stability (liquid)</td>
<td>Up to 5 cycles at 32°F (0°C)</td>
</tr>
<tr>
<td>Storage</td>
<td>Store in cool, dry place. Protect from freezing.</td>
</tr>
</tbody>
</table>

**Mapelastic® 315**

**DESCRIPTION**
Professional cement-based waterproofing membrane

**FEATURES AND BENEFITS**
- Dual protection: Provides waterproofing and crack isolation
- Prevents in-plane floor cracks up to 1/16” (1.5 mm) wide from transmitting through tile or stone
- Compatible with MAPEI’s Fiberglass Mesh and Mapeband™ accessories
- Compatible with MAPEI mortars and grouts for complete system protection
- Eliminates most surface preparation; excellent for smoothing over porous, uneven substrates
- Durable and flexible; bonds to a wide range of surfaces
- Prevents in-plane floor cracks from transmitting through tile or stone
- Install tile or stone after 8- to 12-hour cure.
- Flood-test after 72-hour cure.

**INDUSTRY STANDARDS AND APPROVALS**
- ASTM: C627 (Robinson) service rating for extra heavy
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile)
- ANSI: Meets A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)

**SHELF LIFE AND APPLICATION PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color (cured Mapelastic 315)</td>
<td>Gray</td>
</tr>
<tr>
<td>Color (Fiberglass Mesh)</td>
<td>White</td>
</tr>
<tr>
<td>Shelf life (powder)</td>
<td>1 year (when stored in original, unopened bag)</td>
</tr>
<tr>
<td>Shelf life (latex)</td>
<td>2 years (when stored in original, unopened container)</td>
</tr>
<tr>
<td>Pot life</td>
<td>About 1 hour (based on temperature and humidity)</td>
</tr>
<tr>
<td>Thickness per coat</td>
<td>5/64” (2 mm)</td>
</tr>
<tr>
<td>Finishing time (after applying each coat)</td>
<td>About 5 to 12 minutes</td>
</tr>
<tr>
<td>Drying time between coats</td>
<td>4 to 6 hours</td>
</tr>
<tr>
<td>Cure time before installing ceramic tile or stone</td>
<td>8 to 12 hours</td>
</tr>
<tr>
<td>Cure time before flood-testing</td>
<td>72 hours</td>
</tr>
<tr>
<td>Cure time before water immersion or freeze/thaw exposure</td>
<td>7 days (or as indicated by tile mortar)</td>
</tr>
<tr>
<td>Maximum crack-isolation protection (in plane)</td>
<td>1/16” (1.5 mm)</td>
</tr>
</tbody>
</table>
**Mapelastic® HPG**

**DESCRIPTION**
Flexible waterproofing and crack-isolation membrane

**INDUSTRY STANDARDS AND APPROVALS**
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile)
- ASTM: C627 (Robinson) service rating for extra heavy

**FEATURES AND BENEFITS**
- Dual protection: Provides waterproofing and crack isolation
- Prevents in-plane floor cracks from transmitting through tile or stone
- Compatible with MAPEI’s Fiberglass Mesh and Mapeband™ accessories
- Compatible with MAPEI mortars and grouts for complete system protection
- Durable and flexible; bonds to a wide range of surfaces
- Ready to use; easy to apply with roller, trowel or brush
- Install tile or stone after curing for 16 to 24 hours.
- Flood-test after 72-hour cure.

**SHELF LIFE AND APPLICATION PROPERTIES**

<table>
<thead>
<tr>
<th>Color (cured Mapelastic HPG)</th>
<th>Light blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color (MAPEI’s Fiberglass Mesh)</td>
<td>White</td>
</tr>
<tr>
<td>Shelf life</td>
<td>2 years (when stored in original, unopened container)</td>
</tr>
<tr>
<td>Storage</td>
<td>Store in cool, dry place. Protect from freezing.</td>
</tr>
<tr>
<td>Drying time between coats</td>
<td>4 to 6 hours</td>
</tr>
<tr>
<td>Cure time before installing ceramic tile or stone</td>
<td>16 to 24 hours</td>
</tr>
<tr>
<td>Cure time before flood-testing</td>
<td>72 hours</td>
</tr>
<tr>
<td>Application temperature range</td>
<td>50°F to 95°F (10°C to 35°C)</td>
</tr>
<tr>
<td>Crack-isolation protection (one-coat system, with no mesh in field)</td>
<td>Existing in-plane cracks up to 1/8&quot; (3 mm)</td>
</tr>
<tr>
<td>Crack-isolation protection (two-coat system with mesh)</td>
<td>1/8&quot; (3 mm) of additional in-plane movement</td>
</tr>
</tbody>
</table>

**Product Code** | **Size**
--- | ---
3553000 | Bucket: 1 U.S. gal. (3.79 L)
3563000 | Pail: 3.5 U.S. gals. (13.2 L)
3566000 | Pail: 5 U.S. gals. (18.9 L)

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**Mapecguard® WP 200**

**DESCRIPTION**
Waterproofing sheet membrane for ceramic tile and stone

**INDUSTRY STANDARDS AND APPROVALS**
- ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile) and A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)
- ASTM: C627 (Robinson) service rating for extra heavy
- ASTM: E96, Method E, meeting requirements of < 0.5 perms
- ICC Evaluation Service Report ESR 3474
- IAPMO-listed for shower-pan liners
- IAPMO File #3996

**FEATURES AND BENEFITS**
- Waterproofing and vapor control membrane
- High-performance crack isolation up to 1/8" (3 mm)
- Recommended for use with polymer-modified mortars
- For residential and commercial interior/exterior use
- Polyethylene layer with a laminated, nonwoven, polypropylene fabric on both sides
- Low perm rating per ASTM E96, Method E
- Approved for residential and commercial steam rooms
- Uniformed thickness with a thin profile
- Lightweight for easy handling and fast installation
- Allows immediate tiling after installation

**SHELF LIFE AND APPLICATION PROPERTIES**

| Shelf life | 2 years when stored in original, unopened packaging at 73°F (23°C) and 50% RH |
| Physical state | Polyethylene sheet membrane with non-woven polypropylene fabric on both sides |
| Thickness | 0.02" (0.44 to 0.48 mm), nominally 17 to 19 mils |
| Color | Blue |
| Storage and performance temperature range | -4°F to 122°F (-20°C to 50°C) |

**Product Code** | **Size**
--- | ---
2850205 | Roll: 39.4' x 16.4' (1 m x 5 m) for 53.8 sq. ft. (5 m²) per roll
2850210 | Roll: 39.4' x 32.8' (1 m x 10 m) for 108 sq. ft. (10 m²) per roll
2850230 | Roll: 39.4' x 98.4' (1 m x 30 m) for 323 sq. ft. (30 m²) per roll
2850215 | Roll: 6' x 50' (1.83 m x 15.2 m) for 300 sq. ft. (27.9 m²) per roll
**Fiberglass Mesh**

**DESCRIPTION**
For Mapelastic® 315 and Mapelastic HPG waterproofing products

**FEATURES AND BENEFITS**
- Compatible with MAPEI’s Mapelastic 315 and Mapelastic HPG waterproofing membranes, and Mapeband™ accessories
- Fully compatible with MAPEI mortars and grouts for complete system protection
- Durable and flexible; lays flat, making it easy to embed
- Fast to install: Ready to use, and easy to cut with scissors or razor knife

**SHELF LIFE AND PRODUCT CHARACTERISTICS**
- Shelf life: 5 years when stored in original, unopened container at 73°F (23°C) and 50% relative humidity
- Color: White
- Storage: Store in cool, dry place.
- Application temperature range: See individual product Technical Data Sheets.

**Product Code** | **Size**
---|---
03101000 | Roll: 39” x 75’ (0.99 m x 22.9 m)
8040002 | Roll: 39.4” x 328’ (1 m x 100 m)
8040003 | Roll: 12” x 150’ (0.3 m x 45.7 m)

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**Mapeband™**

**DESCRIPTION**
Rubber-coated waterproofing accessories

**FEATURES AND BENEFITS**
- High-performance – seamless, one-piece, waterproofing and vapor-proofing accessories
- Elastic and deformable – the ideal reinforcement for environments where waterproofing membranes undergo temperature extremes, freeze/thaw conditions, change of plane, dissimilar materials, vibrations, etc., that can cause waterproofing problems
- Time-saving – quick, easy to install

**PRODUCT PERFORMANCE PROPERTIES**

<table>
<thead>
<tr>
<th>Laboratory Tests</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength (according to ISO 527-1)</td>
<td>290 psi (&gt; 2 N/mm²)</td>
</tr>
<tr>
<td>Ultimate elongation (according to ISO 37-1)</td>
<td>&gt; 700%</td>
</tr>
<tr>
<td>Tear resistance (according to DIN 53363)</td>
<td>14,500 psi (&gt; 100 N/mm²)</td>
</tr>
<tr>
<td>Temperature when in use</td>
<td>22°F to 140°F (-6°C to 60°C)</td>
</tr>
<tr>
<td>Alkali resistance (according to EN 1847) (days, temperature, concentration)</td>
<td>90, 73°F (23°C), 10%</td>
</tr>
</tbody>
</table>

**Product Code** | **Size**
---|---
02101000 | Drain Flashing: 16.75” x 16.75” (42.5 x 42.5 cm)
02401000 | Cove Roll: 4.75” x 163’ (12 cm x 49.7 m)

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**Waterproofing Accessories**

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### Mapeguard® WP ST

**DESCRIPTION**
Waterproofing sealing tape for Mapeguard WP 200

**FEATURES AND BENEFITS**
- For waterproofing installations of Mapeguard WP 200
- For seams and changes of plane
- Component of a waterproof/vapor-barrier membrane system
- Easy to cut, adjust and install
- Compatible with MAPEI polymer-modified mortars

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S.</strong></td>
<td></td>
</tr>
<tr>
<td>2856405</td>
<td>Roll: 4.7&quot; x 16.4' (12 cm x 5 m), with 10 units per case</td>
</tr>
<tr>
<td>2856430</td>
<td>Roll: 4.7&quot; x 98.4' (12 cm x 30 m), with 6 units per case</td>
</tr>
</tbody>
</table>

**SHELF LIFE AND PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Type of material</th>
<th>Polyethylene sheet membrane with non-woven polypropylene fabric on both sides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material thickness</td>
<td>0.01&quot; (0.30 to 0.40 mm), nominally 30 to 40 mils</td>
</tr>
<tr>
<td>Tape color</td>
<td>Blue</td>
</tr>
<tr>
<td>Storage and performance temperature range</td>
<td>-4°F to 122°F (-20°C to 50°C)</td>
</tr>
<tr>
<td>Shelf life</td>
<td>2 years when stored in a dry area in original shipping package at 73°F (23°C) and 50% relative humidity</td>
</tr>
</tbody>
</table>

---

### Mapeguard® PIC

**DESCRIPTION**
Pre-formed inside corners

**FEATURES AND BENEFITS**
- Fast and easy way to seal inside corners in wet areas where walls and floors meet, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing sheet membrane system for ceramic tile and stone

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S.</strong></td>
<td></td>
</tr>
<tr>
<td>2856102</td>
<td>4-5/16&quot; x 4-5/16&quot; x 3-1/2&quot; (11 x 11 x 9 cm), nominal (20-unit case)</td>
</tr>
<tr>
<td>2856101</td>
<td>4-5/16&quot; x 4-5/16&quot; x 3-1/2&quot; (11 x 11 x 9 cm), nominal (25-unit case)</td>
</tr>
</tbody>
</table>

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### Mapeguard® POC

**DESCRIPTION**
Pre-formed outside corners

**FEATURES AND BENEFITS**
- Fast and easy way to seal outside corners, curbs or return walls in wet areas where walls/curbs and floors meet, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing sheet membrane system for ceramic tile and stone

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S.</strong></td>
<td></td>
</tr>
<tr>
<td>2856102</td>
<td>4-5/16&quot; x 4-5/16&quot; x 3-1/2&quot; (11 x 11 x 9 cm), nominal (20-unit case)</td>
</tr>
<tr>
<td>2856101</td>
<td>4-5/16&quot; x 4-5/16&quot; x 3-1/2&quot; (11 x 11 x 9 cm), nominal (25-unit case)</td>
</tr>
</tbody>
</table>
**Mapeguard® PC**

**DESCRIPTION**
Pre-formed pipe collars

**FEATURES AND BENEFITS**
- Fast, tight, and easy way to seal around pipes and shower heads in wet areas, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing sheet membrane system for ceramic tile and stone.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.</td>
<td></td>
</tr>
<tr>
<td>2854101</td>
<td>Round 7.1&quot; (18 cm), nominal</td>
</tr>
<tr>
<td>285425</td>
<td>Round 7.1&quot; (18 cm), nominal</td>
</tr>
</tbody>
</table>


**Mapeguard® VC**

**DESCRIPTION**
Pre-formed valve collars

**FEATURES AND BENEFITS**
- Thin, flexible, alkali-resistant
- Provides a fast and easy way to seal around shower mixing valves in wet areas, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing membrane for ceramic tile and stone.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.</td>
<td></td>
</tr>
<tr>
<td>2856601</td>
<td>Round 9.84&quot; (25 cm), nominal</td>
</tr>
<tr>
<td>2856625</td>
<td>Round 9.84&quot; (25 cm), nominal</td>
</tr>
</tbody>
</table>


**Mapeguard® Combo Pack**

**DESCRIPTION**
Installation corners and collars kit

**FEATURES AND BENEFITS**
- Thin, flexible, alkali-resistant components
- Collars provide fast, tight, and easy way to seal around pipes and shower heads in wet areas, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing sheet membrane system for ceramic tile and stone.
- Corners provide fast and easy way to seal outside corners, curbs or return walls in wet areas where walls/curbs and floors meet, providing waterproofing and vapor management protection when combined with Mapeguard WP 200 waterproofing sheet membrane system for ceramic tile and stone.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.</td>
<td></td>
</tr>
<tr>
<td>2856301</td>
<td>Box containing 4 Mapeguard PIC inside corners, 4 Mapeguard POC outside corners, 1 Mapeguard PC pipe collar and 1 Mapeguard VC valve collar</td>
</tr>
</tbody>
</table>