WATERTIGHT PROTECTION

MAPEI's waterproofing products for tile/stone installation

MAPEI®

ADHESIVES · SEALANTS · CHEMICAL PRODUCTS FOR BUILDING

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

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

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)

	Product Code	Size
U.S. / Canada	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

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

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
	Part B liquid: 2 years
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

	Product Code	Size
U.S. / Canada	1676309	Kit: 20 lbs. (9.07 kg)
	1676305	Part A, Bag: 11 lbs. (4.99 kg)
	1676310	Part A, Bag: 22 lbs. (9.98 kg)
	1676315	Part A, Bag: 33 lbs. (14.97 kg)
	1676404	Part B, Pail: 1 U.S. gals. (3.78 L)
	1676408	Part B, Pail: 2 U.S. gals. (7.57 L)
	1676411	Part B, Pail: 3 U.S. gals. (11,4 L)

Mapelastic® 315

DESCRIPTION

Professional cement-based waterproofing membrane

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)

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.

SHELF LIFE AND APPLICATION PROPERTIES

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

	Product Code	Size
U.S. / Canada	31534000	Kit: 34 lbs. (15.4 kg)
	31550000	Bag: 50 lbs. (22.7 kg)
	31557000	Pail: 2 U.S. gals. (7.57 L)
	31577000	Drum: 55 U.S. gals. (208 L)

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 *iberglass 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

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

	Product Code	Size
U.S. / Canada	35553000 35568000	Bucket: 1 U.S. gal. (3.79 L) Pail: 5 U.S. gals. (18.9 L)

Mapeguard® 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

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 40 to 50 mils
Color	Blue
Storage and performance temperature range	-4°F to 122°F (-20°C to 50°C)

	Product Code	Size
U.S. / Canada	2850205 2850230	Roll: 39.4" x 16.4' (1 m x 5 m) for 53.8 sq. ft. (5 m²) per roll Roll: 39.4" x 98.4' (1 m x 30 m) for 323 sq. ft. (30 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

	Product Code	Size
U.S. / Canada	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)

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.

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 Code	Size
U.S. / Canada	02101000	Drain Flashing: 13.5" x 13.5" (34.3 x 34.35 cm)
	02401000	Cove Roll: 3" x 163' (7.5 cm x 49.7 m)

PRODUCT PERFORMANCE PROPERTIES

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

Mapeguard® WP ST

DESCRIPTION
Waterproofing sealing tape for *Mapeguard WP 200*

	Product Code	Size
U.S. / Canada	2856405	Roll: 4.7" x 16.4' (12 cm x 5 m), with 10 units per case
	2856430	Roll: 4.7" x 98.4' (12 cm x 30 m), with 6 units per case

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

SHELF LIFE AND PRODUCT CHARACTERISTICS

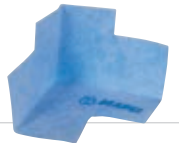|	
Type of material	Polyethylene sheet membrane with non-woven polypropylene fabric on both sides
Material thickness	0.01" (0.30 to 0.40 mm), nominally 30 to 40 mils
Tape color	Blue
Storage and performance temperature range	-4°F to 122°F (-20°C to 50°C)
Shelf life	2 years when stored in a dry area in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

Mapeguard® PIC

DESCRIPTION
Pre-formed inside corners

	Product Code	Size
U.S. / Canada	2856102	4-5/16" x 4-5/16" x 3-1/2" (11 x 11 x 9 cm), nominal (20-unit case)
	2856101	4-5/16" x 4-5/16" x 3-1/2" (11 x 11 x 9 cm), nominal (25-unit case)

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
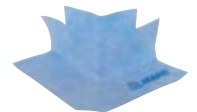
Mapeguard® POC

DESCRIPTION
Pre-formed outside corners

	Product Code	Size
U.S. / Canada	2856202	4-5/16" x 4-5/16" x 3-1/2" (11 x 11 x 9 cm), nominal (20-unit case)
	2856201	4-5/16" x 4-5/16" x 3-1/2" (11 x 11 x 9 cm), nominal (25-unit case)

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
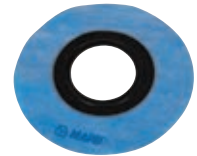
Mapeguard® PC

DESCRIPTION
Pre-formed pipe collars

	Product Code	Size
U.S. / Canada	2854101	Round 7.1" (18 cm), nominal (10-unit case)
	2854125	Round 7.1" (18 cm), nominal (25-unit case)

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

Mapeguard® VC

DESCRIPTION
Pre-formed valve collars

	Product Code	Size
U.S. / Canada	2856601	Round 9.84" (25 cm), nominal (10-unit case)

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
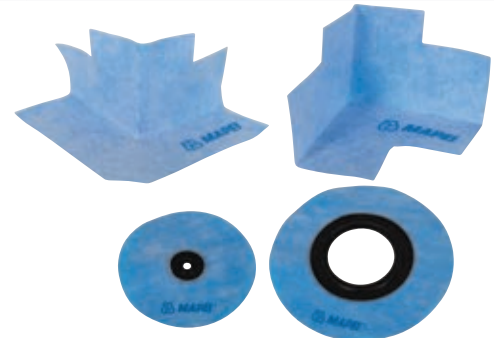

Mapeguard® Combo Pack

DESCRIPTION
Installation corners and collars kit

	Product Code	Size
U.S. / Canada	2856301	Box containing 4 *Mapeguard PIC* inside corners, 4 *Mapeguard POC* outside corners, 1 *Mapeguard PC* pipe collar and 1 *Mapeguard VC* valve collar

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

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MAPEI®