WATERTIGHT PROTECTION

MAPEI's waterproofing products for tile/stone installation

MAPEI®

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 of Extra Heavy
- ASTM: E96, Procedure E (Desiccant Method) at 100°F (37.8°C), 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 light green and dry to the touch
Drying time after second coat (before applying ceramic tile or stone)	About 30 to 50 minutes (when light 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.	7339104	Pail: 1 U.S. gal. (3.79 L)
	7339113	Pail: 3.5 U.S. gals. (13.2 L)
	7339119	Pail: 5 U.S. gals. (18.9 L)
	7339178	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 of 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 (2 coats)	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.	1676306KIT	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

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 of Extra Heavy
- IAPMO (File #3996): Listed for use as shower-pan liner
- ICC Evaluation Service Report ESR 3474

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

SHELF LIFE AND APPLICATION PROPERTIES

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

	Product Code	Size
U.S.	7345704	Pail: 1 U.S. gal. (3.79 L)
	7345713	Pail: 3.5 U.S. gals. (13.2 L)

Mapelastic® 315

DESCRIPTION
Professional cement-based waterproofing membrane

INDUSTRY STANDARDS AND APPROVALS
- ASTM: C627 (Robinson) service rating of 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.	1671531	Kit: 34 lbs. (15.4 kg)
	1671415KIT	Bag: 50 lbs. (22.7 kg)
	1671431	Pail: 2 U.S. gals. (7.57 L)
	1671578	Drum: 55 U.S. gals. (208 L)

MAPEI

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 of Extra Heavy

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

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.

	Product Code	Size
U.S.	7346004	Bucket: 1 U.S. gal. (3.79 L)
	7346013	Pail: 3.5 U.S. gals. (13.2 L)
	7346019	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 of 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
U.S.	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

	Product Code	Size
U.S.	1782523	Roll: 39" x 75' (0.99 m x 22.9 m)
	1782599	Roll: 39.4" x 328' (1 m x 100 m)
	1782514	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.	7950710	Drain Flashing: 16.75" x 16.75" (42.5 x 42.5 cm)
	7950850	Cove Roll: 4.75" x 163' (12 cm x 49.7 m)

PRODUCT PERFORMANCE PROPERTIES

Laboratory Tests	Results
Tensile strength (according to ISO 527-1)	290 psi (> 2 N/mm²)
Ultimate elongation (according to ISO 37-1)	> 700%
Tear resistance (according to DIN 53363)	14,500 psi (> 100 N/mm²)
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%

MAPEI®

Mapeguard® WP ST

DESCRIPTION

Waterproofing sealing tape for *Mapeguard WP 200*

	Product Code	Size
U.S.	2856405	Roll: 4.7" x 16.4' (12 cm x 5 m), with 10 units per case
	2856410	Roll: 4.7" x 32.8' (12 cm x 10 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.	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.	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 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.	2854101	Round 7.1" (18 cm), nominal (10-unit case)
	2854125	Round 7.1" (18 cm), nominal (25-unit case)
	2854310	Round 7.1" (18 cm), nominal; size 3/4" (19 mm) (10 units per case)
	2854325	Round 7.1" (18 cm), nominal; size 3/4" (19 mm) (25 units per 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
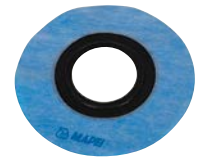
Mapeguard® VC

DESCRIPTION

Pre-formed valve collars

	Product Code	Size
U.S.	2856601	Round 9.84" (25 cm), nominal (10-unit case)
	2856625	Round 9.84" (25 cm), nominal (25-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
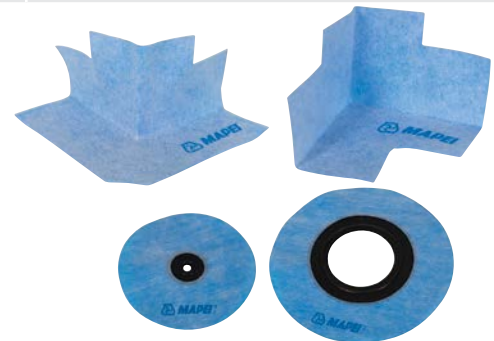
Mapeguard® Combo Pack

DESCRIPTION

Installation corners and collars kit

	Product Code	Size
U.S.	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

Planiseal® CR1

DESCRIPTION
Single-component, primary waterproofing membrane

INDUSTRY STANDARDS AND APPROVALS
- Meets or exceeds ASTM C836, Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
- Miami-Dade County Product Control Approved

SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf life	1 year when protected from ultraviolet light and stored in a dry place at between 40°F (4°C) and 95°F (35°C)
Color	Green
Minimum application temperature	40°F (4°C)
Approximate curing time, at 70°F (21°C) and 50% relative	-4°F to 122°F (-20°C to 50°C)
Rain-resistant, at 70°F (21°C) and 50% relative humidity	After 2 hours
Required curing time for concrete substrates	3 days

FEATURES AND BENEFITS
- Single-grade membrane for vertical and horizontal applications
- Suitable for green concrete
- Seamless and monolithic
- Does not require a primer
- Applies easily with no mixing or special equipment required
- Free of solvents
- Very low odor
- Free of tar and asphalt
- Compatible with common construction materials such as concrete, concrete masonry units (CMUs), stone, metal, plastic (PVC and ABS), wood (pressure- treated and fire-treated), rigid insulation and insulating concrete forms (ICF)

	Product Code	Size
U.S.	2438619	Pail: 5 U.S. gals. (18.9 L)

MAPEI LMR Fabric

DESCRIPTION
Reinforcing fabric for liquid waterproofing membranes

INDUSTRY STANDARDS AND APPROVALS
- ISO 14001

SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Thickness	7.1 mils
Color	White
Storage conditions	Keep dry and protect from UV light.

FEATURES AND BENEFITS
- 100% recyclable
- Thermally bonded
- High ratio of strength to weight
- Excellent dimensional stability
- Rot- and mildew-resistant
- No formaldehyde content
- Chemically inert
- No fraying

	Product Code	Size
U.S.	1782278	Roll: 36" x 667 ft. (0.91 x 203 m), for 2,001 sq. ft. (186 m²) per roll; packaged 72 rolls per pallet

Mapeflex® P1 FT

DESCRIPTION

One-component, non-sag, elastomeric polyurethane sealant

INDUSTRY STANDARDS AND APPROVALS

- ASTM C920; Type S; Grade NS; Class 25; Uses NT, T, M, G, A and O*
- TT-S-00230C, Type II, Class A
- AAMA 808.3-92
- CAN/CGSB-19.13-M87
- Meets VOC limits of the South Coast Air Quality Management District (SCAQMD)

Curing rate at 73°F (23°C) and 50% relative humidity

FEATURES AND BENEFITS

- Cures to a void-free polyurethane
- Accommodates joint movement of +/- 25%
- High abrasion and tear resistance
- Tremendous adhesion
- Paintable and sandable
- Low-VOC content
- Nonstaining** and odorless
- Good resistance to weathering
- One-component; offers superior gunning and tooling

**Product will typically not stain or "shadow" surfaces that it is applied to.*

SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Application temperature range	41°F to 95°F (5°C to 35°C)
Time before skinning over	90 minutes
Time before becoming tack-free	90 minutes
Curing rate at 73°F (23°C)	1/8" (3 mm) per 24 hours

	Product Code	Size
U.S.	2UA1516253 2UA1516256	Cartridge: 10.1 U.S. oz. (300 mL) Sausage pack: 20.2 U.S. oz. (600 mL)

Mapeflex® P2 NS

DESCRIPTION

Two-component, non-sag, polyurethane sealant

INDUSTRY STANDARDS AND APPROVALS

- ASTM: Meets ASTM C920-14 (Type M; Grade NS; Class 25; Uses T_1, NT, M, G, A and O)

FEATURES AND BENEFITS

- Two-component
- Provides a chemical cure
- Pre-pigmented
- Non-sag for easy application to vertical concrete joints
- Can offer +50% joint movement after curing

	Product Code	Size
U.S.	1910306	Kit: 1.5 U.S. gals. (5.68 L)

SHELF LIFE AND PRODUCT CHARACTERISTICS

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Final cure at 73°F (23°C)	About 3 days

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