Concrete Restoration Systems

- Self-Leveling Underlayments
- Self-Leveling Toppings
- Primers for Self-Leveling
- Patching and Skimcoating Compounds
- Screeds
- Concrete Repair Mortars
- Construction Grouts
- Exterior Refinishing
- Waterproofing
- Repair Epoxies
- Curing Compounds and Admixtures
- Corrosion Protection
- Sealer

www.mapei.com
MAPEI has the resources to provide architects, builders and contractors “Total Solutions” for all concrete restoration and flooring projects. A total solution provides a single-source system – from surface preparation and concrete restoration through the installation of floor coverings. MAPEI systems are also guaranteed and compatible with approved specified flooring manufacturers.

The total solutions for Concrete Restoration Systems include:
- Primers and epoxies.
- Self-leveling underlayments and toppings.
- Decorative flooring systems.
- One- and two-component concrete repair mortars.
- Construction grouts.
- Waterproofing products.
- Tool systems and accessories for surface preparation.
- Technical services and customer support.

MAPEI is a unique company. It has transformed from an enterprise of the Italian craft tradition in Milan, Italy, into a global scientific and technological leader in its industry. Today, around the world, MAPEI is working hard to make the best and most useful products for you!

MAPEI remains a leader in concrete restoration systems through its ongoing commitment to the following principles:

**Keeping scientific research at the forefront**

Worldwide, 12% of MAPEI employees work in research & development, making technologically superior products and quality service available to customers.

To stay on the cutting edge of innovation and one step ahead of the competition, MAPEI reinvests 5% of its annual sales revenue into research & development of new products. MAPEI’s worldwide labs work on more than 150 new projects each year.
Finding solutions to our customers’ challenges

MAPEI’s technical experts are highly equipped to propose solutions to any jobsite problem, working with R&D to custom-design products and systems to meet the most challenging construction needs.

MAPEI’s Technical Services team is committed to helping resolve technical problems. It provides prompt telephone response to customers seeking urgent technical advice including: planning project installations, troubleshooting problems, reviewing product claims and conducting specialized product testing as needed.

Providing education as a key to success

MAPEI strongly believes in supporting the training of architects, engineers, distributors and installers. The MAPEI Technical Institute – located in facilities in Florida, Texas and California as well as in Laval, Canada – conducts two- and three-day training courses in custom-designed, high-tech facilities. These courses offer practical demonstrations, hands-on workshops, video presentations and seminars.

Developing environmentally friendly products

At MAPEI, concern for the environmental impact of products is a fundamental part of its philosophy, corporate commitment and responsibility. MAPEI utilizes recycled materials whenever it is practical. For example, more than 20% of Ultralite Mortar™ (MAPEI’s state-of-the-art lightweight mortar) comes from recycled raw materials. Since 2001, MAPEI has been a member of the U.S. Green Building Council, which focuses on sustainable and recyclable building processes as well as environmental and internal air-quality issues.

MAPEI technology logos

Products developed with MAPEI’s “green innovation” are LEED-compliant, helping to contribute valuable points toward LEED-certified projects.

Select MAPEI products for tile and stone installation feature High-Hydrated Cement Technology, offering high early strength, excellent workability, ultra-fast curing, unmatched long-term durability and efflorescence-free curing.

Corrosion Inhibitor Enhanced repair mortars feature proprietary additives that fortify the passivation layer on embedded reinforcing steel, enhancing its resistance to corrosion.

Following the strictest international standards for quality

MAPEI is devoted to ensuring continuous improvement in quality products and services as it works toward achieving the most comprehensive and demanding International Organization for Standardization (ISO) certification for all of its American facilities.
# Concrete Restoration Systems Quick-Reference Chart

<table>
<thead>
<tr>
<th><strong>Product</strong></th>
<th><strong>Description</strong></th>
<th><strong>Applications</strong></th>
<th><strong>Recommended Substrates</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primers for Self-Leveling (p. 9)</strong></td>
<td></td>
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</tr>
<tr>
<td>Planibond® EBA</td>
<td>Epoxy Bonding Agent and Primer</td>
<td>Superior performance on a variety of prepared substrates</td>
<td>Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior</td>
</tr>
<tr>
<td>Primer L™</td>
<td>Advanced-Technology Acrylic Latex Primer for Concrete</td>
<td>For porous and prepared concrete substrates</td>
<td>Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior</td>
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<tr>
<td>Primer WE™</td>
<td>Water-Based Epoxy Primer</td>
<td>For nonporous and prepared substrates; use only Primer WE over Planiseal MRB</td>
<td>Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior</td>
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</tbody>
</table>

| **Self-Leveling Underlayments and Toppings (pp. 6 – 8)** | | | |
| Novoplan® 2 | Polymer-Modified, Cement-Based, Self-Leveling Underlayment | 3-day cure underlayment/cost, polymer-modified | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Novoplan Easy | Easy-Preparation, Self-Leveling Underlayment | Leveling, smoothing & repairing of interior floors | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitex™ SL | Self-Leveling Underlayment for Gypsum and Wood Substrates | Patching and leveling interior wood and gypsum floors | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Ultralan® 1 Plus | High-Performance, Quick-Setting, Self-Leveling Underlayment | Quick-cure underlayment ideal for low-build applications | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Ultralan Easy | Easy-Preparation, Fast-Setting, Self-Leveling Underlayment | Reduced surface preparation | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Ultralan M20 Plus | Quick-Setting, Self-Leveling Concrete Topping and Underlayment | High-quality, general-purpose underlayment and topping with superior open time and flow | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Ulratop™ | High-Performance, Quick-Setting, Self-Leveling Concrete Topping | High-quality topping for finished flooring systems | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |

| **Patching and Skimcoating Compounds (p. 10)** | | | |
| Mapecem® Quickpatch | Interior/Exterior, Fast-Setting, High-Flow Concrete Patch | Interior/exterior horizontal spalled substrates or localized surface damage up to 3” (7.5 cm) deep | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Tilt Finish™ | Fast-Setting, Concrete Smoothing and Finishing Compound | Refinishing & patching of concrete surfaces; smoothing/finishing compound for tilt wall | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |

| **Screeds (pp. 10 – 12)** | | | |
| Mapecem 100 & Planicrete® PM | High-Build, Two-Component, Fast-Setting Mortar System | Rapid cure, low cost, high flow, ease of placement, pumpable | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Mapecem 101 | Thin-Build, One-Component, Fast-Setting Mortar | Durable wear surface for low-build resurfacing repairs | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Mapecem 102 | Medium-Build, One-Component, Fast-Setting Mortar | Durable wear surface for high-build applications | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Mapecem 202 | Medium-Build, Two-Component, Fast-Setting Mortar | Superior-durability wear surface for high-build applications | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Topcem Premix | Ready-to-Use Accelerated-Cure Screed | Suitable in both bonded and unbonded, interior and exterior applications | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |

| **Concrete Repair Mortars (pp. 12 – 15)** | | | |
| Planitop® X | Fast-Setting Horizontal, Vertical and Overhead One-Component Repair Mortar | Fast, versatile, user-friendly, economical, trowel-applied mortar with high early strength | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop XS | Extended-Working-Time, Vertical and Overhead One-Part Repair Mortar | Extended working time; variant of Planitop X | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 12 | Vertical and Overhead One-Component Repair Mortar | Thixotropic with extended open time and superior shotcrete performance | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 15 | Form-and-Pour, One-Component Repair Mortar | High-flow form-and-pour applications; column repairs | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 18 | Fast-Setting, Flowable, One-Component Repair Mortar | Heavy-traffic, rapid road-surface repair; fast-setting general repair | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 21 | Thin-Build, Two-Component Rendering Mortar | Strong and durable low-build resurfacing mortar | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 23 | Vertical and Overhead Two-Component Repair Mortar | Renovation and repair of vertical and overhead structures | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |
| Planitop 25 | Flowable Two-Component Repair Mortar | Near self-leveling exterior-grade resurfacing mortar; polishes beautifully | Concrete, Wood, Ceramic, VCT, Terrazzo, Steel, Gravel, Mud Bed, Interior, Exterior |

* Aggregate is typically 3/8” (10 mm) pea gravel, saturated surface-dry (SSD). All measures (coverages, cure times, etc.) are estimations under ideal conditions. Actual installation conditions (surface and temperature) will impact coverages and cure times. Consult the Technical Data Sheet and MAPEI’s Technical Services for more information.
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<thead>
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<th>Product</th>
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<th>Applications</th>
<th>Recommended Substrates</th>
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<tbody>
<tr>
<td>Construction Grouts</td>
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<tr>
<td>Planigrout® 712</td>
<td>High-Performance, Nonshrinking Cementitious Grout</td>
<td>Corrosion Inhibitor; structural grout for locations requiring full load-bearing and stabilization; contains silica fume; meets ASTM C1107 and CRD 621 requirements</td>
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<tr>
<td>Planigrout 740</td>
<td>Cement-Based Precision and Tremie Grout</td>
<td>High-performance precision grout for baseplate and underwater repairs</td>
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<tr>
<td>Planigrout 755</td>
<td>Cement-Based, General-Purpose Construction Grout</td>
<td>General construction grout meeting ASTM C1107 and CRD C-621</td>
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<tr>
<td>Exterior Refinishing</td>
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<tr>
<td>Concrete Renew™ &amp; Concrete Renew Fine</td>
<td>Exterior Cementitious Concrete Resurfacer, with fine-grade version</td>
<td>Creates uniform, wearable, like-new, light gray surface</td>
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<tr>
<td>MAPEI Spraytop™ RS</td>
<td>Premium Decorative Concrete Knockdown Topping</td>
<td>Pool decks, walkways, driveways and interior/exterior concrete substrates where a decorative finish is desired</td>
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<td>Waterproofing</td>
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<tr>
<td>Idrostop® 5</td>
<td>Hydrophilic Expandable Rubber Strip for Watertight Construction</td>
<td>Produce watertight construction joints in civil, industrial and hydraulic construction, up to 1 atm of pressure</td>
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<tr>
<td>Mapeband™ TPE</td>
<td>TPE Tape for Sealing and Waterproofing Joints Subject to Movement</td>
<td>Waterproofing expansion joints in roadwork, tunnels, hydraulic work; areas subject to move up to 3/16” (5 mm)</td>
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<tr>
<td>Mapeelastic™</td>
<td>All-Climate, Flexible Cementitious Membrane for Concrete Waterproofing and Protection</td>
<td>Bridges, dams, spillways, pools, balconies – anywhere one wants to waterproof and protect concrete from harsh environmental conditions</td>
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<tr>
<td>Mapeelastic Smart</td>
<td>Roller-Grade, Flexible Cementitious Membrane for Concrete Waterproofing and Protection</td>
<td>Balconies, foundations, structures – anywhere one wants to waterproof and protect concrete from harsh environmental conditions</td>
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<tr>
<td>Mapexelx™ Sel</td>
<td>Non-Woven, Macro-Holed Polypropylene Fabric</td>
<td>Reinforcing waterproofing membranes; concrete units subject to large deformations at risk of cracking; easy to use</td>
<td></td>
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<tr>
<td>Planiseal™ 88</td>
<td>Cement-Based Waterproofing Coating</td>
<td>Brush-trowel-applied waterproofing coating for positive and negative side application</td>
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<tr>
<td>Planiseal Plug</td>
<td>Ultra Quick-Setting Water Stop and Anchoring Mortar</td>
<td>Quick-setting, hydraulic cement that stops water leaks</td>
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<tr>
<td>Repair Epoxies</td>
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<tr>
<td>Planibond AE</td>
<td>High-Strength, Non-Sag Epoxy Anchoring Gel</td>
<td>Injectable anchoring adhesive for setting bolts, dowels and pins, and bonding difficult substrates</td>
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<tr>
<td>Planibond CR 50</td>
<td>Low-Viscosity Injection Resin for Crack Repair</td>
<td>Deeply penetrates cracks via pressure injection or gravity feed</td>
<td></td>
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<tr>
<td>Planibond® EBA</td>
<td>Epoxy Bonding Agent and Primer</td>
<td>Superior performance on a variety of prepared substrates</td>
<td></td>
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<tr>
<td>Planibond JF</td>
<td>Semi-Rigid Epoxy Joint Filler</td>
<td>Self-leveling epoxy joint filler for industrial floors; meets ASTM C881 requirements</td>
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<tr>
<td>Planiseal Traffic Coat</td>
<td>Low-modulus Epoxy Overlay for Vehicular and Pedestrian Traffic</td>
<td>Skid-resistant, durable traffic surface which meets ASTM C881-90, Type III, Grade 1, Classes B and C, as well as the USDA specifications for use in food-processing areas</td>
<td></td>
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<tr>
<td>Curing Compounds &amp; Admixtures</td>
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</tr>
<tr>
<td>Mapecure™ SRA</td>
<td>Shrinkage and Crack-Reduction Curing Additive</td>
<td>Liquid admixture compatible with traditional MAPEI concrete restoration materials</td>
<td></td>
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<tr>
<td>Planicrete® AC</td>
<td>Acrylic Latex Admixture for Mortar and Concrete</td>
<td>Enhances performance of cementitious repair mortars, plasters, stuccos, concrete mixes and toppings</td>
<td></td>
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<tr>
<td>Planicrete PM</td>
<td>Acrylic Latex Admixture for Mapecem 100</td>
<td>Enhances performance of Mapecem 100</td>
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<tr>
<td>Corrosion Protection</td>
<td></td>
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<tr>
<td>Mapefer™ 1K</td>
<td>Corrosion-Inhibiting Coating for Reinforcing Steel</td>
<td>Easily applied one-component corrosion protection for rebar that passes ASTM B117 requirements</td>
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<tr>
<td>Planibond 3C</td>
<td>Three-Component, Cement-Based Anticorrosion and Bonding Agent</td>
<td>Bonds old concrete to new; corrosion protection and extended open time</td>
<td></td>
</tr>
<tr>
<td>Sealer (p. 23)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mapefinish™ Wet Look</td>
<td>Premium High-Gloss, Water-Based Acrylic Sealer</td>
<td>Exceeds Americans with Disabilities Act requirements for slip resistance, interior/exterior concrete surfaces, pavers, and exposed aggregate* finishes</td>
<td></td>
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</tbody>
</table>
Planitex SL
Self-Leveling Underlayment for Gypsum and Wood Substrates
Planitex SL is a high-performance gypsum-based self-leveler. It is a low-VOC floor-smoothing compound for patching, skimming, smoothing and leveling in dry interior residential or commercial areas. Planitex SL is suitable under normal loading in interiors from featheredge to 1-1/4" (3,2 cm). Planitex SL provides a suitable substrate for carpet, rubber, vinyl and ceramic tile. Planitex SL can be used to cover radiant or in-floor heating systems, and features exceptional compressive and flexural strengths so that it can support light wheeled traffic.

Novoplan 2
Polymer-Modified, Cement-Based, Self-Leveling Underlayment
Novoplan 2 is a high-strength, self-leveling, cement-based underlayment and repair mix for interior concrete and engineer-approved floors. Novoplan 2 is suited for leveling, smoothing and repairing interior floors before installation of floor coverings. Ceramic tile and natural stone can be installed 24 hours after application. Floor coverings – such as carpet, vinyl sheet goods, vinyl tile, vinyl composition tile (VCT), homogenous PVC, rubber and engineered wood plank – can be installed 1 to 3 days after application, depending upon thickness of application.

Index to technology logos
Select MAPEI products for tile and stone installation feature High-Hydrated Cement Technology, offering high early strength, excellent workability, ultra fast curing, unmatched long-term durability and efflorescence-free curing.

Corrosion Inhibitor Enhanced repair mortars feature proprietary additives that fortify the passivation layer on embedded reinforcing steel, enhancing its resistance to corrosion.

Products developed with MAPEI’s “green innovation” are LEED-compliant, helping to contribute valuable points toward LEED-certified projects.
**Novoplan® Easy**

**Easy-Preparation, Self-Leveling Underlayment**

Novoplan Easy is a high-strength, self-leveling cement-based underlayment and repair mix for interior concrete and engineer-approved floors. It typically requires only a clean, soundly bonded substrate before application. Novoplan Easy provides low installation costs and fast turnaround on jobsites.

**Ultraplan® 1 Plus**

**High-Performance, Quick-Setting, Self-Leveling Underlayment**

Ultraplan 1 Plus is an HCT™ (High-Hydrated Cement Technology)-based, quick-setting, self-leveling, self-drying underlayment and repair mix for interior concrete and engineer-approved floors. Ultraplan 1 Plus has high strength and is abrasion-resistant, able to withstand light foot traffic after 2 to 3 hours and vehicular rubber-wheel traffic after 3 days.

**Ultraplan® M20 Plus**

**Quick-Setting, Self-Leveling Concrete Topping and Underlayment**

Ultraplan M20 Plus is an HCT™ (High-Hydrated Cement Technology)-based, quick-setting self-leveling, self-drying material. It is specially formulated for the resurfacing and construction of interior horizontal surfaces as a light-traffic industrial or commercial wear topping or underlayment for floor coverings. This light gray product can be used for fast-track resurfacing and construction of horizontal wear surfaces. It also is designed to accept architectural stains as well as industrial/commercial sealers and coatings.

Ultraplan M20 Plus is also tough enough for industrial warehouse floors and loading docks subject to continual light vehicular and foot traffic. Ceramic tile and natural stone can be installed in as little as 3 to 4 hours after application. Floor coverings – such as carpet, vinyl sheet goods, vinyl tile, vinyl composition tile (VCT), homogenous PVC, rubber, engineered wood plank, and polymer floor coatings and toppings – can be installed 16 to 24 hours after application.
**Ultratop®**

High-Performance, Quick-Setting, Self-Leveling Concrete Topping

_Ultratop_ is an HCT™ (High-Hydrated Cement Technology)-based, self-leveling, self-drying topping that is specially formulated for the resurfacing and construction of interior horizontal surfaces.

Available in natural gray and white, _Ultratop_ is used for fast-track resurfacing and construction of horizontal wear surfaces. _Ultratop_ White maximizes the brilliance of architectural stains and integral coloring agents, providing the ultimate palette for designing unique and artistic floors.

_Ultratop_ Natural Gray is the ideal color to represent a natural gray concrete floor. _Ultratop_ is suitable for retail stores, mall corridors and entrances, showroom floors, restaurant floors, hotel lobbies, loft apartments... nearly anywhere a unique, creative floor is desired. It also is tough enough for industrial warehouse floors and loading docks subject to continual vehicular and foot traffic.

**Ultraplan® M20 Plus**

Quick-Setting, Self-Leveling Concrete Topping and Underlayment

_Ultraplan M20 Plus_ is an HCT™ (High-Hydrated Cement Technology)-based, quick-setting self-leveling, self-drying material. It is specially formulated for the resurfacing and construction of interior horizontal surfaces as a light-traffic industrial or commercial wear topping or underlayment for floor coverings. This light gray product can be used for fast-track resurfacing and construction of horizontal wear surfaces. It also is designed to accept architectural stains as well as industrial/commercial sealers and coatings.

_Ultraplan M20 Plus_ is also tough enough for industrial warehouse floors and loading docks subject to continual light vehicular and foot traffic. Ceramic tile and natural stone can be installed in as little as 3 to 4 hours after application. Floor coverings – such as carpet, vinyl sheet goods, vinyl tile, vinyl composition tile (VCT), homogenous PVC, rubber, engineered wood plank, and polymer floor coatings and toppings – can be installed 16 to 24 hours after application.
**Primer L™**

**Advanced-Technology Acrylic Latex Primer for Concrete**

*Primer L* is a concentrated, solvent-free acrylic primer used before the installation of underlayments and topping materials. It is green for easy identification. *Primer L* improves the bond between a properly prepared and profiled concrete substrate, and self-leveling underlayment or topping materials.

**Primer WE™**

**Water-Based Epoxy Primer**

*Primer WE* is a two-component, polymer-modified, solvent-free water-based epoxy primer for enhanced adhesion to nonporous substrates before the application of MAPEI self-leveling materials. When mixed, *Primer WE* is purple for easy identification. It improves adhesion over smooth, nonabsorbent and difficult-to-bond-to substrates such as properly prepared ceramic tile, cement-based terrazzo, old cutback adhesive residue and approved plywood subfloors.

**Planibond® EBA**

**Epoxy Bonding Agent and Primer**

*Planibond EBA* is a two-component, multipurpose epoxy bonding agent and primer. *Planibond EBA* is nonshrinking, 100%-solids and moisture-insensitive. (Note: This is not a moisture-reduction barrier coating.) *Planibond EBA* is used primarily as a primer for MAPEI self-leveling materials, and as a bonding agent for screeds and repair mortars, with applications for corrosion protection and crack repair. *Planibond EBA* meets ASTM C881 requirements.
Mapecem® Quickpatch

High-Performance, High-Flow Concrete Patch

Mapecem Quickpatch is a versatile, fast-setting, cementitious material used for the patching of interior/exterior concrete surfaces including concrete floors, driveways, sidewalks and concrete pads. Mapecem Quickpatch features extraordinary ease of placement, with a variable water ratio and outstanding workability. Light gray Mapecem Quickpatch can be applied from featheredge to 3” (7.5 cm) for ramping or filling. That makes it ideal for restoring weathered, damaged concrete surfaces to a uniform, superior-wearing and better-than-new appearance. When used for horizontal substrate repair before application of self-leveling underlayments, Mapecem Quickpatch sets fast for easy and cost-efficient repairs, minimizing jobsite turnaround time.

Tilt Finish™

Fast-Setting, Concrete Smoothing and Finishing Compound

Tilt Finish is a versatile, fast-setting, polymer-modified material blending calcium aluminate and Portland cement. Tilt Finish is ideal for producing a smooth finish on concrete surfaces including tilt wall, poured-in-place concrete, masonry, pre-cast beams and columns. Tilt Finish features extraordinary ease of placement, with a variable water ratio, extended pot life and outstanding workability. Light gray Tilt Finish can be applied from featheredge, up to 1/2” (12 mm) in confined areas and up to 1/8” (3 mm) over large surface areas. Ease of placement makes it ideal for covering imperfections in concrete surfaces, providing a uniform, light gray appearance, or a smooth surface before painting or application of coating.

Topcem™ Premix

Ready-to-Use, Accelerated-Cure Screed

Topcem Premix is a ready-to-use mortar requiring only the addition of water. Topcem Premix is suitable in both bonded and unbonded, interior and exterior applications. Topcem Premix has an accelerated cure, allowing for installation of ceramic flooring in 24 hours after placement, and nonbreathable flooring systems in 48 hours. Topcem Premix can easily be screeded or sloped, and has the workability and working time of conventional mortars but with a much faster curing time. It is ideal for interior or exterior repairs such as filling trenches, re-sloping balconies, and forming screeds that may or may not receive subsequent flooring installations.

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<th>Product Code</th>
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<th>Packaging Canada</th>
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</table>
Mapecem® 100

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

Mapecem 100 is a one-component, shrinkage-compensated, cementitious mortar intended for the renovation and topping of interior horizontal concrete and engineer-approved surfaces. Mapecem 100 is used for treating concrete defects; filling honeycombs, voids and cavities; and construction or repair of new and existing concrete slabs. This mortar also is used when floating or monolithic toppings are required.

When properly used, Mapecem 100 has a residual moisture content of less than 2.5% within 24 hours. Mixed with water, Mapecem 100 produces a mortar that is easy to apply on horizontal surfaces in thicknesses of 3/8" to 4" (10 mm to 10 cm) for a bonded system, and 1-3/8" to 4" (3.5 to 10 cm) for a nonbonded system. With the addition of Planicrete® PM, Mapecem 100 can be pumped (see Technical Data Sheet for details). Mapecem 100 can be opened to traffic within 3 to 4 hours. No curing is required. (Protect application in adverse climatic conditions, such as heat and wind.)

Planicrete® PM

Acrylic Latex Admixture for Mapecem® 100

Planicrete PM is a one-component polymer admixture used to enhance the performance of Mapecem 100. Planicrete PM is nonreemulsifiable, according to the American Concrete Institute (ACI).

Mapecem® 101

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

Mapecem 101 is a one-component, shrinkage-compensated, polymer-modified, cementitious mortar intended for the renovation and topping of interior/exterior horizontal concrete surfaces. It is designed for factory floor repair, loading docks, warehouse floors and other applications where severe wear resistance and abrasion resistance are required. Use Mapecem 101 for renovation of concrete structures such as tunnels, bridges, overpasses, industrial floors, warehouse floors, factory floors and loading docks; new and existing concrete slabs; and the construction and repair of monolithic toppings where fast drying is required.

When properly mixed, Mapecem 101 has a residual moisture content of less than 2.5% within 24 hours. Mixed with water, Mapecem 101 produces a mortar that is easy to apply on horizontal surfaces of 1/16" to 1" (1.5 mm to 2.5 cm) for spot patching and up to a maximum of 1/4" (6 mm) thick for large areas. Mapecem 101 achieves an impressive compressive strength of 5,500 psi (37.9 MPa) at 28 days.
**Mapecem® 102**

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

*Mapecem 102* is a one-component, shrinkage-compensated, polymer-modified, fast-setting cementitious mortar with corrosion inhibitor. *Mapecem 102* is intended for the renovation and topping of interior/exterior horizontal concrete surfaces, such as galleries, tunnels, bridges, overpasses, factory floors, warehouse floors and loading docks; new and existing concrete slabs; and the construction of floating or monolithic toppings where fast drying is required to allow traffic within 3 to 4 hours.

**Product Code**

| U.S./Canada | 0150125 | Bag: 55 lbs. (24.9 kg) |

**Mapecem® 202**

**Medium-Build, Two-Component, Fast-Setting Mortar**

*Mapecem 202* is a two-component, shrinkage-compensated, polymer-modified, fast-setting cementitious mortar with corrosion inhibitor. *Mapecem 202* is intended for the renovation and topping of interior/exterior horizontal concrete surfaces. *Mapecem 202* is excellent for heavy-duty industrial applications that include manufacturing floors, loading docks and tipping floors for smelting metals, where fast drying is required to allow traffic within 3 to 4 hours. *Mapecem 202* achieves an impressive compressive strength of 6,700 psi (46.2 MPa) in 28 days.

When properly mixed, *Mapecem 202* has a residual moisture content of less than 2.5% within 24 hours. It applies easily onto horizontal surfaces in thicknesses of 1/4" to 2" (6 mm to 5 cm) maximum per placement. For filling deeper spaces (up to 8" [20 cm]), add up to 20% by weight of 1/4" to 3/8" (6 to 10 mm) washed, nonreactive SSD (saturated surface-dry) aggregate to the *Mapecem 202*.

**Planitop® X**

**Fast-Setting Horizontal, Vertical and Overhead One-Component Repair Mortar**

*Planitop X* is a one-component, shrinkage-compensated, fast-setting, polymer-modified, high-build cementitious repair mortar with a corrosion inhibitor. It is suited for all interior/exterior vertical, overhead and horizontal concrete applications, including precast/prestressed, tilt-up, post-tensioned and cast-in-place concrete. *Planitop X* can be applied in thicknesses of featheredge to 4" (0 to 10 cm) per lift. *Planitop X* is engineered with MAPEI’s Easy Glide Technology™ for ease of application and is light gray to match existing concrete surfaces.

**U.S.**

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Planitop® XS

Extended-Working-Time, Vertical and Overhead One-Part Repair Mortar

Planitop XS is an extended-working-time variation of Planitop X. Shrinkage-compensated, fiber-reinforced and polymer-modified, Planitop XS features Planitop X’s outstanding workability and corrosion inhibitor. Ideal for use in a wide variety of vertical and overhead concrete repairs, Planitop XS can be applied in thicknesses of featheredge to 4” (0 to 10 cm) per lift. Planitop XS is engineered with MAPEI’s Easy Glide Technology™ for ease of application and is light gray to match existing concrete surfaces.

Planitop® 12

Vertical and Overhead One-Component Repair Mortar

Planitop 12 is a one-component, shrinkage-compensated, cementitious, thixotropic, fiber-reinforced mortar intended for the renovation of vertical and overhead concrete surfaces. Planitop 12 contains a corrosion inhibitor. Use it for overhead structural concrete repairs and restoration up to a thickness of 2” (5 cm). Planitop 12 can be placed in large quantities in overhead applications and is suited for precast, cast-in-place, post-tensioned and prestressed concrete repair.

Planitop® 15

Form-and-Pour, One-Component Repair Mortar

Planitop 15 is a one-component, shrinkage-compensated, cementitious, fiber-reinforced, fluid mortar. Planitop 15 contains a corrosion inhibitor and is suited for form-and-pour applications where high early strength and flowability are required.

### Product Codes and Packaging

**Planitop® XS**

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**Planitop® 12**

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**Planitop® 15**

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Planitop 18

Fast-Setting, Flowable, One-Component Repair Mortar

Planitop 18 is a one-component, shrinkage-compensated, fast-setting, cementitious repair mortar with corrosion inhibitor. It is suited for all interior/exterior horizontal concrete repairs, including bridge-deck overlays, parking-garage floor repairs and various horizontal DOT concrete repairs.

Planitop 21

Thin-Build, Two-Component Rendering Mortar

Planitop 21 is a pre-proportioned, two-component, polymer-modified cementitious mortar. It is used for renovating and resurfacing interior/exterior concrete structures such as galleries, tunnels, bridges, overpasses, retaining walls, beams, building facades and ceilings. Planitop 21 also is used for treating concrete surface blemishes and defects; filling honeycombs, voids and cavities; and protecting concrete against pollutants and acid rain.

Planitop 21 contains a high concentration of synthetic polymer, which produces a repair mortar having excellent adhesion, flexural strength, compressive strength, water impermeability and freeze/thaw resistance. Apply up to 1/4" (6 mm) thick.

Planitop 23

Vertical and Overhead Two-Component Repair Mortar

Planitop 23 is a pre-proportioned, two-component, fast-setting, polymer-modified, thixotropic, cementitious fiber-reinforced mortar, with a corrosion inhibitor. It is used for renovating and resurfacing interior/exterior concrete structures such as galleries, tunnels, bridges, overpasses, retaining walls, beams, building facades and ceilings. Planitop 23 also is used for treating concrete surface blemishes and defects; filling honeycombs, voids and cavities; and protecting concrete against pollutants and acid rain. With a high concentration of synthetic polymer and fiber, Planitop 23 offers excellent adhesion, flexural strength, compressive strength, water impermeability and freeze/thaw resistance. Once mixed, the mortar applies easily onto vertical, horizontal and overhead ceiling surfaces, in thicknesses of 1/8" to 2" (3 mm to 5 cm) per coat.
**Planitop® 25**

**Flowable Two-Component Repair Mortar**

Planitop 25 is a two-component, shrinkage-compensated, cementitious, flowable resurfacing mortar with corrosion inhibitor. Once mixed, the mortar applies easily onto horizontal surfaces in thicknesses of 1/4" to 1" (6 mm to 2.5 cm) per coat. Planitop 25 contains a high concentration of synthetic polymer, which produces a dense, durable resurfacing mortar with outstanding adhesion, flexural and compression strengths. It also has very low permeability, offering high resistance to freeze/thaw cycles and chloride ion penetration. Planitop 25 is formulated for demanding industrial repairs involving heavy impact and high abrasion, such as loading docks, warehouse floors, and areas subject to forklift and pallet jacks.

**Planigrout® 712**

**High-Performance, Nonshrinking Cementitious Grout**

Planigrout 712 is a one-component, nonshrinking, nonmetallic, cement-based construction grout that meets CRD C621 and ASTM C1107 (Grade C) standards. Planigrout 712 contains a corrosion inhibitor and silica fume, as well as a special blend of aggregate, plasticizers and water-reducing agents that provide exceptional placing and performance characteristics.

**Planigrout® 740**

**Cement-Based Precision and Tremie Grout**

Planigrout 740 is a high-strength, fluid, preblended, shrinkage-compensated, cementitious precision and tremie grout composed of selected fine aggregates and special additives. Planigrout 740 requires only the addition of water to produce consistencies from plastic to very fluid, without separation, which allows the filling of hard-to-reach spaces and underwater repairs. Containing anti-washout agents and shrinkage-compensation agents, Planigrout 740 provides high compressive and flexural strengths relatively quickly.
Planigrout® 755

Cement-Based, General-Purpose Construction Grout

Planigrout 755 is a one-component, shrinkage-compensated, cementitious construction grout consisting of selected fine aggregates and special additives. Planigrout 755 requires only the addition of water to produce consistencies varying from dry pack to flowable (without segregation). In addition, it produces excellent compressive and flexural strengths within a few days.

Concrete Renew™

Exterior, Cementitious Concrete Resurfacer

Concrete Renew is a one-component, polymer-modified cementitious material for the resurfacing of existing concrete. It is suitable for broom finishes and decorative trowel finishes on sidewalks, driveways, steps and anywhere that has exposed concrete. Concrete Renew features a natural light gray color that provides a uniform, like-new look to concrete surfaces.

Concrete Renew™ Fine

Fine-Grade, Exterior, Cementitious Concrete Resurfacer

Concrete Renew Fine is a one-component, polymer-modified cementitious material for the resurfacing of existing concrete. It is suitable for broom finishes and decorative trowel finishes on sidewalks, driveways, steps and anywhere that has exposed concrete. Concrete Renew Fine features a natural light gray color that provides a uniform finish to concrete surfaces.
MAPEI Spraytop™ RS

Premium Decorative Concrete Knockdown Topping
MAPEI Spraytop RS is a one-component, polymer-modified, decorative resurfacers. MAPEI Spraytop RS can be used on any sound, stable concrete surface—both vertical and horizontal—to provide unique textured surfaces.

Mapelastic™

All-Climate, Flexible Cementitious Membrane for Concrete Waterproofing and Protection
Mapelastic is a cementitious membrane that waterproofs concrete. It also protects concrete from chemical attack by de-icing salts, sulphates, chlorides and carbon dioxide that leads to deterioration and requires costly repair. Mapelastic is designed for application on new concrete structures, concrete structures repaired with Mapcem® or Planitop® mortars and renders with hairline cracks, as well as any cementitious surface subject to vibrations and subsequent cracking. Use Mapelastic on such hydraulic projects as channels and faces of dams as well as swimming pools, basins, storage tanks, balconies and terraces.

Mapelastic™ Smart

Roller-Grade, Flexible Cementitious Membrane for Concrete Waterproofing and Protection
Mapelastic Smart is a cementitious membrane for protecting new concrete structures, concrete structures repaired with Mapcem® or Planitop® mortars, renders with hairline cracks and any cementitious surface subject to vibrations and any cementitious surface subject to vibrations and the subsequent cracking. Mapelastic Smart also is designed for waterproofing such hydraulic projects as channels and faces of dams as well as swimming pools, basins, storage tanks, balconies and terraces.
Planiseal™ 88

Cement-Based Waterproofing Coating

Planiseal 88 is a one-component, polymer-modified, cementitious waterproofing coating for concrete and masonry surfaces. It can be used as a waterproofing and protection coating/mortar on interior and exterior concrete and masonry surfaces such as basements, galleries, foundation walls, reservoirs, swimming pools, irrigation canals, wet rooms, retaining walls, bridges, overpasses, piers, beams, facades, ceilings and balconies.

When mixed with water, Planiseal 88 withstands negative and positive hydrostatic pressures and can be applied to either negative- or positive-side concrete surfaces to provide waterproofing. Planiseal 88 can be applied by trowel or brush (spray applications are recommended for larger jobs) up to 1/16" (1.5 mm) thick. Mix with Planicrete® AC to obtain a coating/mortar having superior adhesion, cohesion and waterproofing characteristics.

Planiseal Plug

Ultra Quick-Setting Water Stop and Anchoring Mortar

Planiseal Plug is a quick-setting mortar specially designed for stopping active water leaks, repairing concrete and anchoring. Planiseal Plug is used for repairing horizontal and vertical surfaces in interior or exterior concrete applications, such as:

- Repairing substrates, floors, walls, sidewalks, pipes, and precast and concrete components.
- Anchoring door and window frames and any other component that is required to be mechanically fastened to concrete substrates.
- Quick-patching any type of conduits in concrete substrates (sewers, wastewater treatment plants, etc.)
- Patching and sealing small water leaks in concrete structures very quickly.

When mixed with water, Planiseal Plug ensures high compression and flexural strengths in just 3 hours. Chloride-free, Planiseal Plug is intended for vertical and horizontal surfaces. When hardened, Planiseal Plug is highly resistant to water and freeze/thaw cycles.

Idrostop™ 5

Hydrophilic Expandable Rubber Strip for Watertight Construction

Idrostop 5 is used to produce watertight construction joints in civil, industrial and hydraulic construction. Construction joints created with Idrostop 5 are watertight up to 1 atm of pressure.

- U.S./Canada 0100005 Pail: 11 lbs. (4.99 kg)
- U.S./Canada 0100025 Pail: 55 lbs. (24.9 kg)
- U.S./Canada 176260 Case: 6 Rolls - 390’ x 3/4” x 3/16” (120 m x 20 mm x 5 mm)
**Mapetex™ Sel**

Nonwoven, Macro-Holed Polypropylene Fabric for Reinforcing Waterproofing Membranes

*Mapetex Sel* is a macro-holed polypropylene fabric reinforcement used together with *Mapelastic™* and *Mapelastic Smart* flexible cementitious membranes for waterproofing and protecting new concrete surfaces or concrete units particularly subject to large deformations and, therefore, at risk of cracking. *Mapetex Sel* is also suitable for use on surfaces at risk of cracking following repair with products from the *Mapecem®* and *Planitop®* product groups. *Mapetex Sel* can help increase crack-bridging capability up to 1/8” (3 mm).

**Mapeband™ TPE 170**

Thermo Plastic Elastomer Tape

*Mapeband TPE 170* is for flexible sealing and waterproofing of expansion joints and cracks subject to movement up to 3/16” (5 mm).

**Planibond® EBA**

Epoxy Bonding Agent and Primer

*Planibond EBA* is a two-component, multipurpose epoxy bonding agent and primer. *Planibond EBA* is nonshrinking, 100%-solids and moisture-insensitive. (Note: This is not a moisture-reduction barrier coating.) *Planibond EBA* is used primarily as a primer for MAPEI self-leveling materials, and as a bonding agent for screeds and repair mortars, with applications for corrosion protection and crack repair. *Planibond EBA* meets ASTM C881 requirements.

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<td>U.S./Canada 176260</td>
<td>Roll: 17 cm x 30 m (6.7” x 98’)</td>
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<td>Part A: 5 U.S. gal. (18.9 L)</td>
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<td>U.S./Canada 40269000</td>
<td>Part B: 5 U.S. gal. (18.9 L)</td>
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Planibond® JF
Semi-Rigid Epoxy Joint Filler
Planibond JF is a two-part, 100%-solids, moisture-tolerant, semi-rigid epoxy joint filler. Planibond JF meets ASTM C881 and ACI 302 requirements as well as USDA specifications for food-processing areas. The self-leveling Planibond JF is ideal for filling and sealing horizontal non-moving saw-cut control joints and random cracks.

Planibond® AE
High-Strength, Nonsag Epoxy Anchoring Gel
Planibond AE is a high-strength, two-part, nonsag, epoxy anchoring gel designed for a wide variety of bonding and repair applications. With VOC compliance and low odor, Planibond AE meets ASTM C881; Types I, II, IV and V; and Grade 3, Classes B and C; as well as USDA specifications for food-processing areas. Planibond AE is moisture-tolerant and may be extended with graded sands. Planibond AE adheres to masonry, concrete, steel and other structural materials.

Planibond® CR 50
Low-Viscosity Injection Resin for Crack Repair
Planibond CR 50 is a two-part, low-viscosity injection resin that deeply penetrates the finest hairline cracks, restoring the structural integrity of concrete. High-strength and moisture-tolerant, Planibond CR 50 meets ASTM C881; Types I, II, IV and V; and Grade 1, Class B and C; as well as USDA specifications for use in food-processing areas. Planibond CR 50 may be applied by pressure injection or gravity feed, and can also be combined with sand to become an epoxy mortar or grout. Planibond CR 50 features a fluorescent tracer dye, allowing easy analysis of penetration in repair core samples.
**Planicrete® AC**

**Acrylic Latex Admixture for Mortar and Concrete**

Planicrete AC is a one-component, concentrated, liquid latex admixture used to enhance the performance of cementitious repair mortars, plasters, stuccos, concrete mixes and toppings for the restoration of horizontal, vertical and overhead concrete; concrete masonry units (CMUs); and masonry surfaces. It is used as an admixture in all cement-based masonry mortars, stucco, sand and cement repair mortars, and any other cement-based material to improve adhesion and reduce permeability. Planicrete AC also will increase compressive, flexural and tensile strengths. When mixed with Portland cement, Planicrete AC also can be used as a slurry bond coat for concrete.

**Planicrete® PM**

**Acrylic Latex Admixture for Mapecem® 100**

Planicrete PM is a one-component polymer admixture used to enhance the performance of Mapecem 100. Planicrete PM is nonreemulsifiable, according to the American Concrete Institute (ACI).
**Mapecur™ SRA**

Shrinkage- and Crack-Reduction Curing Additive

Mapecur SRA is a liquid admixture that reacts chemically to reduce hydraulic shrinkage and the formation of microcracks. Mapecur SRA is compatible with traditional MAPEI concrete restoration materials, such as cementitious grouts and most repair mortars.

**Mapefer™ 1K**

Corrosion-Inhibiting Coating for Reinforcing Bar

Mapefer 1K is a one-component anticorrosion and bonding mortar based on unique polymers, cementitious binders and corrosion inhibitors. Mapefer 1K should be applied on clean reinforcing steel to inhibit oxidation and rust formation.

**Planibond® 3C**

Three-Component, Cement-Based Anticorrosion and Bonding Agent

Planibond 3C is a three-component corrosion inhibitor and bonding agent system consisting of water-based, solvent-free, moisture-tolerant, epoxy-modified corrosion inhibitors. It can be applied using a brush, short-nap roller, push broom or hopper spray equipment. Planibond 3C excels as a cementitious bonding agent and corrosion protection treatment. Use Planibond 3C on all exposed reinforcing steel and as a bonding agent before the placement of repair products.
Premium, High-Gloss Water-Based Acrylic Sealer

Mapefinish Wet Look is a one-part, water-based, transparent high-gloss sealer for concrete surfaces that exceeds the Americans with Disabilities Act requirements for slip resistance. Mapefinish Wet Look utilizes acrylic epoxy hybrid resins that offer superior abrasion, blush and slip resistance, outperforming most solvent-based acryics and many urethane dispersions. Mapefinish Wet Look is low in VOCs, odor-free and permeable to water vapor, making it perfect for application on interior and exterior concrete surfaces and on epoxy coatings. Mapefinish Wet Look enhances color with a user-friendly installation and superior performance.

TECHNOLOGY YOU CAN BUILD ON™

Concrete Restoration Systems
- Self-Leveling Underlayments • Self-Leveling Toppings
- Primers for Self-Leveling
- Patching and Skimcoating Compounds • Screeds
- Concrete Repair Mortars • Construction Grouts
- Exterior Finishing • Waterproofing • Repair Epoxy
- Curing Compounds and Admixtures • Corrosion Protection • Sealer

Tile & Stone Installation Systems
- Surface Preparation Products
- Membrane Systems & Waterproofing Products
- Mortars • Mastics • Grouts • Caulks
- Finishing and Care Product

Floor Covering Installation Systems
- Carpet Adhesives
- Flooring Adhesives
- Resilient Adhesives
- Wood Adhesives
- Moisture-Control Products
- Patching and Repair Products

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Hungary
Italy
Luxembourg
Netherlands
Norway
Poland
Portugal
Romania
Russia
Slovakia
Slovenia
Spain
Sweden
Switzerland
Ukraine
United Kingdom

ASIA/OCEANIA
United Arab Emirates
Australia
China
Hong Kong
Malaysia
New Zealand
Singapore
Vietnam

AFRICA
Egypt

Product Code
U.S./Canada 31668000
Packaging
Pail: 5 U.S. gal. (18.9 L)
Headquarters of the Americas
1144 East Newport Center Drive Deerfield Beach, FL  33442
Phone: 1-888-US-MAPEI
   (1-888-876-2734)
Fax: (954) 246-8800

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

Technical Services
1-800-992-6273 (U.S. and Puerto Rico)
1-800-361-9309 (Canada)

For more information on the complete line of MAPEI products, visit our Website at www.mapei.com.