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Healthcare construction is booming, and each project brings specific challenges. MAPEI is your partner in answering these important challenges:

Fast track
Healthcare settings generate impressive revenue per square foot (meter) — but only once the doors are open. These buildings are often designed with a compressed schedule in mind. MAPEI’s FastTrack Ready™ products are designed to be faster-setting and to deal with the moisture issues that “green” concrete can pose. We offer concrete additives that can improve the performance of the concrete you select. Downtime is not an option with construction of healthcare buildings. MAPEI is there from the first stages of construction, protecting against water intrusion with our below-grade waterproofing products. Best of all, MAPEI’s team will work with you to make sure that the products you select follow your schedule.

Accessibility
Floors, elevators and exterior areas for healthcare applications must not impose unnecessary barriers. In addition to foot traffic, healthcare settings will endure wheelchairs, canes, prosthetics, walkers, crutches, rolling beds and stretchers, carts and ambulances. MAPEI is up to the task of providing flat, durable surfaces with a complete line of levelers, adhesives, mortars and coatings. Our team is skilled at finding innovative solutions to complex problems.

Warranty
MAPEI backs its products with industry-leading Best-Backed™ warranties that stand long after the general contractor has handed over the keys to the building. Visit our Website at www.mapei.com for our 10-year, 25-year and lifetime warranties.

Building design
Gone are the dreary green halls of the past. Today’s healthcare facilities rival hotels and resorts, because a healthy and beautiful environment contributes to healing. Common areas are bright and open, featuring high-end finishes. MAPEI has worked with all the major floor and wall coverings on the market today, experience that will be your best asset in ensuring installations that are as trouble-free as they are beautiful. Our high-performance levelers and adhesives ensure that the floors are up to the task, and we stay with you until the final finishes are in place. We also offer concrete finishes that can be polished, colorful (and durable) coatings for building exteriors, and a beautiful array of grout choices for tile installations.

This brochure addresses many different types of areas within healthcare facilities (hospitals, physical therapy and nursing). In all of these areas, surfaces must be strong, resistant and durable. At the same time they must be easy to clean and maintain, particularly in clean rooms like laboratories and surgical rooms. Installation materials must always be chosen according to the type of floor or wall covering material to be installed, and the floor or wall covering itself must be suitable for its intended use. MAPEI has always been at the forefront in developing products and system solutions that meet the installation requirements of specific healthcare facilities.
Full-Breadth Product Lines

MAPEI products offer complete installation system solutions to address all your flooring, tile and concrete restoration needs from a single source.

- **TILE & STONE INSTALLATION SYSTEMS**
- **FLOOR COVERING INSTALLATION SYSTEMS**
- **PRODUCTS FOR WOOD FLOORING**
- **CONCRETE RESTORATION SYSTEMS**
- **PRODUCTS FOR STRUCTURAL STRENGTHENING**
- **PRODUCTS FOR UNDERGROUND CONSTRUCTION**
- **ADMIXTURES FOR CONCRETE**
- **WATERPROOFING SYSTEMS**
- **CEMENT ADDITIVES**
- **PRODUCTS FOR THE MARINE INDUSTRY**
Innovative Research & Development

Worldwide, more than 12% of MAPEI employees are involved in the development of new technologies and product innovations, keeping our customers at the forefront of the flooring industry. The company has taken the additional initiative of focusing its R&D efforts on environmentally sustainable solutions.

To remain on the cutting edge of innovation, MAPEI reinvests 5% of its annual revenues into researching and developing new products and technologies. This corporate priority has produced such innovations as:

- **High-Hydrated Cement Technology (HCT)**, which offers high early strength, excellent workability, ultra fast curing, unmatched long-term durability and efflorescence-free curing.
- **Easy Glide Technology**, which offers extreme ease of application, yielding a buttery consistency that reduces fatigue during troweling.
- **Ultrabond ECO** product formulations beginning in the 1980s with extremely low emissions of volatile organic compounds (VOCs) for improved indoor air quality.
- **FastTrack Ready** products, which reduce the required steps of an installation and/or perform more quickly than current technology.

Quality Control and Efficient Manufacturing

MAPEI is an ISO 9001-2000 certified company. Our products are produced according to exacting standards, strictly adhering to process and procedural guidelines with documented compliance. This rigid production format is vigilantly followed to ensure that every product is produced uniformly from batch to batch.

Powerful, Efficient and Sustainable Manufacturing

Cutting-edge production technology is used in MAPEI’s production facilities, where the entire manufacturing process is optimized by continual quality control, from raw materials to final packaging.

MAPEI’s production statistics are impressive: 73 production facilities in 34 countries on five continents. Along with the 25,000 tons of finished products that are manufactured at our production facilities every day (that’s 4.5 million tons per year), we receive just as many tons of raw materials to keep our sites supplied around the world.

MAPEI’s production efforts are reflected through optimization of logistics costs, close proximity to our customers, and a guarantee of maximum efficiency of production processes while respecting the environment.
Warranty Program

To bring it all together, MAPEI complements the industry’s best products with simple, easy-to-understand requirements for comprehensive warranties — allowing you to build systems within desired warranty timeframes.

MAPEI’s advanced systems give you the built-in confidence provided by superior in-field technical support and the Best-Backed™ warranties in the business.

Professional Support

Knowledgeable Sales Force

MAPEI offers the largest, most highly trained sales force within the industry to serve your needs for product application/installation recommendations. Its sales representatives are focused on supporting you with product knowledge, product demonstrations, product information, marketing support materials and other relevant tools to help you generate business.

Technical Expertise

An in-house Technical Services Product Support Team responds to customers’ telephone inquiries with answers to installation challenges in real time. In addition, Regional Technical Services Representatives provide field support, including jobsite visits, product training and advice on product selection.

Call us at 1-800-992-6273 (flooring, U.S. and Puerto Rico), 1-888-365-0614 (non-flooring, U.S. and Puerto Rico) or 1-800-361-9309 (Canada).

Customer Service Plus

MAPEI’s standards for customer service are best-in-class. Our leadership includes such service innovations as:

- Customer-friendly, efficient processes
- One-call resolution
- Employee commitment to effective customer dialog

Call us at 1-800-42-MAPEI (1-800-426-2734).
Blindside waterproofing is often utilized when building in urban or congested areas where retention walls must be utilized due to property line constraints, adjacent structures or roadways. Blindside waterproofing refers to the method of installing a waterproofing system before the foundation is poured. MAPEI’s Mapeproof sodium bentonite clay system is ideal for these complex applications.

**Issue:** Prevent water intrusion into buildings that have limited access and ability to excavate during construction, and are adjacent to an existing structure or property line

**Solution:** Blindside waterproofing, through the Mapeproof waterproofing system, to prevent water intrusion

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<td>1</td>
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<td>Mapedrain TD Fittings (end outlet)</td>
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Second only to fire, water has the most deleterious impact on a structure and its contents. As such, MAPEI offers positive-side waterproofing systems that are installed on the outboard side of the structure to keep water out of the building. The Mapethene system, based on a self-adhered waterproofing membrane, is a simple and effective means of accomplishing this goal.

**Issue:** Prevent water intrusion into buildings following the construction of their foundation walls

**Solution:** Positive-side waterproofing, through the Mapethene waterproofing system, to prevent water intrusion
Building exteriors are subjected to a wide variety of conditions. From UV exposure to high wind loads to freezing conditions, the products for the outside of the building must be up to the task. Tile and stone have historically been the exterior cladding of choice for demanding applications.

**Issues:** Water causing efflorescence; freeze/thaw concerns

**Solution:** Installation material designed to not contribute to efflorescence and to resist freeze/thaw damage

1. Concrete
2. **Modified Mortar Bed**
3. **Mapelastic AquaDefense** (or **Mapelastic 315**)
4. **Granirapid System**
5. Ceramic tile (or stone)
6. **Ultracolor Plus FA**
7. **Mapesil T**
Many healthcare settings now include valet parking as part of the customer experience. These areas are often tiled for durability and ease of maintenance. Ambulance traffic is also typically accommodated in much the same manner, with covered porticos and exterior tile installations.

**Issues:** Vehicular traffic; weather; salts; efflorescence

**Solutions:** Installation materials that do not contribute to efflorescence and that resist adverse conditions

- **Concrete**
- **Modified Mortar Bed**
- **Mapelastic AquaDefense** (or Mapelastic 315)
- **Granirapid** System
- **Ceramic tile (or stone)**
- **Ultracolor Plus FA**
- **Mapesil T**
Parking decks and other exterior, pedestrian and vehicular traffic areas require rugged products developed specifically for the unique conditions that they experience. MAPEI’s Mapefloor family of products is engineered for parking decks and the demands of their installations.

**Issues:** Rolling-wheel traffic; low-speed turns

**Solution:** A highly bonded system of products protecting the substrate and resisting the force of rolling loads and turns

1. Existing concrete
2. Primer SN
3. Mapefloor PU 400 FC
4. Mapefloor Finish 415 NA with sand broadcast
5. Mapefloor Finish 415 NA
Exterior facades face many challenges. They are subjected to intense sunlight, temperature variations, carbon dioxide, water, salt and wind. MAPEI’s Elastocolor products are designed to address these conditions in an unlimited array of colors.

**Issue:** Need for an attractive, durable exterior coating that seals out water/salt and is easy to clean

**Solution:** A system that is formulated to seal, protect and beautify

![Building facade with plans for exterior facade system solutions.](image-url)
Patient rooms have specific flooring requirements primarily due to heavy equipment rolling across them and bed wheels that rotate repeatedly in a very small area. MAPEI provides systems of high-strength levelers and adhesives that stay put even when pressure is exerted on them.

**Issue:** Patient beds with wheels that swivel and rock in a small area

**Solution:** An adhesive that keeps vinyl in place and minimizes the potential for dents

1. Concrete
2. Primer T
3. Ultraplan Easy
4. Ultrabond ECO 360
5. Sheet vinyl
6. Ultrabond ECO 575
7. Cove base
Patient rooms with luxury vinyl plank (LVP) and luxury vinyl tile (LVT) have challenges similar to those of sheet vinyl, heavy equipment and concentrated rolling loads from beds and gurneys. The adhesives used must stay in place and not move away from the concentrated load.

**Issue:** Rolling loads

**Solution:** High-quality adhesive designed for rolling loads

---

1. Concrete
2. Primer T
3. Ultraplan Easy
4. Ultradon ECO 360
5. LVP (or LVT)
6. Ultradon ECO 575
7. Cove base

For installations over concrete with moisture issues, refer to the section on high moisture on Page 33.
Cleanrooms are some of the most demanding applications for finishes and adhesives. Dust, VOCs and biological contaminants cannot be tolerated in these settings. MAPEI products are designed to work with the finishes of choice for cleanroom applications. Impact and rolling loads also must be addressed from the substrate up. Use this project solution for operating rooms, isolation patient rooms, testing rooms, laboratories (microbiology/epidemiology), computer rooms, bio technology rooms, life science rooms or other areas that are sensitive to environmental contamination.

**Issue:** Rolling loads

**Solution:** High-quality adhesive designed for rolling loads

1. Concrete
2. Primer T
3. Ultraplan LSC
4. Ultrabond ECO 360
5. Sheet vinyl
Surgical rooms and laboratory areas require continual sanitizing with no hidden recesses for microbial contamination.

**Issues:** Rolling loads; bonding of rubber flooring

**Solution:** An adhesive designed specifically for hard-to-bond products such as rubber flooring

---

1. Concrete
2. **Primer T**
3. **Ultraplan LSC**
4. **Ultrabond ECO 560**
5. Virgin rubber sheet

For installations over concrete with moisture issues, refer to the section on high moisture on Page 33.
Hallways are heavy-traffic areas where the majority of the traffic will be moving along a set path, time after time. The materials used to flatten and adhere these areas must be designed with a high compressive strength and stay where they are placed, even under heavy traffic conditions.

**Issue:** Substrates receive a thin layer of patch or skimcoat that must be up to the challenge of heavy foot traffic, cart traffic and carpet cleaning schedules.

**Solutions:** High-compressive-strength patching products for high-traffic areas

1. Concrete
2. *Planiprep SC* (or *Planipatch*)
3. *Ultrabond ECO 285*
4. Carpet
5. *Ultrabond ECO 575*
6. Vinyl (or rubber) cove base
Food preparation areas must be highly resistant to a wide variety of compounds. From food debris to hot oils to sanitizing solutions, the mortars and grouts found in these areas must be up to the environmental demands of a commercial kitchen.

**Issues:** Chemicals; staining; harsh cleaning

**Solution:** Industrial-grade and chemical-resistant grout

1. Concrete
2. Mapelastic AquaDefense
3. Kerabond/Keralastic System
4. Quarry tile
5. Kerapoxy IEG CQ
Cafeteria floors are commonly finished with vinyl flooring. As luxury vinyl tile (LVT) and luxury vinyl plank (LVP) products have evolved in looks and performance, adhesive systems also have evolved with ease of installation and staying power.

**Issue:** Fast-track installations of LVT or LVP

**Solution:** High-quality, fast-setting, easily applied adhesive

1. Concrete
2. **Planiprep SC** (or **Planipatch**)
3. **Ultrabond ECO 373**
4. LVT (or LVP)
5. **Ultrabond ECO 575**
6. Vinyl or rubber cove base

For installations over concrete with moisture issues, refer to the section on high moisture on Page 33.
Carpet tiles are often chosen for aesthetic and maintenance reasons, allowing individual squares of tile to be swapped out. MAPEI offers adhesives that bond when you want them to but release when you need them to.

**Issue:** Fast-track installations of carpet tiles that can be quickly replaced

**Solution:** High-quality, fast-setting, easily applied adhesive

**Concrete**

**Planiprep SC (or Planipatch)**

**Ultrabond ECO 810**

**Carpet tile**

**Ultrabond ECO 575**

**Vinyl or rubber cove base**
Lobbies and registration areas are often the first impression that a customer has of the building. Increasingly high-end finishes are chosen for lobbies in healthcare facilities in order to provide a beautiful and calming welcome. Porcelain tiles and a wide array of stones are often found in this application. MAPEI’s wide array of mortars and grouts secure the desired flooring in place for a trouble-free and long-lasting lobby floor.

**Issues:** High traffic; pivot area; traffic patterns

**Solutions:** High-quality installation materials and high-performance grouts that can handle the rigors of the environment
Common areas such as lobbies, lounge areas and breakfast areas often feature concrete floors as a design element. While polishing existing concrete can be an option, existing concrete may not always be up to the task. MAPEI products such as Ultratop PC provide a fast, effective solution for a polished concrete look over less-than-perfect substrates.

**Issue:** Soft, damaged or uneven concrete

**Solution:** Single-source complete system that encapsulates the existing concrete

* To obtain this look, a stain was also applied.
Thin porcelain tile panels (also called "gauged" tile) are a trendy retrofit for well-bonded existing but outdated tile installations. Thin porcelain tile panels add a minimal amount of thickness but provide the narrow grout joints and impressive scale that designers demand. Thin porcelain tiles require the maximum amount of coverage and support from mortars, which is why MAPEI Ultralite S2 was developed. This mortar solves many of the challenges of thin-tile installation.

**Issues:** Dated tile or stone, cost of removal

**Solutions:** Fast-setting rendering mortar to flatten walls; bond-promoting primer for existing tile; mortar designed to give maximum support to large gauged panel tile

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**WALL**

1. Existing wall (out of plumb)
2. Planitop 330 Fast
3. MAPEI Ultralite S2
4. Large gauged panel tile
5. MAPEI Flexcolor CQ (or Ultracolor Plus FA)
6. Mapesil T

**FLOOR**

1. Concrete
2. Existing tile
3. ECO Prim Grip
4. MAPEI Ultralite S2
5. Large gauged panel tile
6. MAPEI Flexcolor CQ (or Ultracolor Plus FA)
7. Mapesil T
Elevator cabs can be a challenging application, especially for hard surfaces like tile and stone. Minimizing or isolating deflection from the floor system to keep tiles and grout from cracking is a major concern. Pivoting loads and high traffic are also in play in elevator cabs. MAPEI’s crack-isolation membranes can provide a long-lasting but cost-effective solution for tiled elevator cabs.

**Issues:** Flexibility; pivot area; high traffic

**Solutions:** Materials suitable for substrates that experience deflection

1. Plancrete W
2. Exterior-grade plywood
3. MAPEI SM Primer
4. Mapeguard 2
5. Ultratexit LFT
6. Tile
7. MAPEI Flexcolor CQ
8. Mapesil T
Rubber flooring is also a common challenge for elevator cabs. Adhering rubber to a steel substrate can be tricky, but MAPEI makes it easy with innovative two-part adhesives like Ultrabond G21. Rubber flooring also compresses under heavy loads, meaning that the adhesive must bond well but allow some flexing of the surface.

**Issues:** Adhering to steel; high traffic

**Solution:** High-bond-strength epoxy adhesive

1. Steel
2. Ultrabond G21
3. Virgin rubber sheet (or rubber tile)
Adhering plywood to a metal floor is a typical construction practice that allows for a variety of finish surfaces on top. MAPEI adhesives keep the plywood in place, and our patching and skimcoating compounds prepare it for the finished surface. **Ultrabond ECO 373** can be applied using a trowel or roller, depending on the level of tack that is required for the specified flooring.

**Issues:** Skimcoating plywood; replacing worn tiles or planks

**Solutions:** High-performance patch and adhesive
Curbless showers require sloping the entire floor to the drain, typically by sloping them to the shower itself. Shower areas need proper sloping and waterproofing before tile is installed. MAPEI manufactures a full range of products that work from the substrate to the final surface to produce waterproof, beautiful installations that meet the construction guidelines of the Americans with Disabilities Act.

**Issues:** Creating a pre-slope; waterproofing

**Solutions:** Using a mortar bed to slope, and a waterproofing membrane to eliminate water migration

1. Concrete
2. Modified Mortar Bed
3. Mapelastic AquaDefense
4. Ultraflex 3
5. Tile
6. Ultracolor Plus FA
7. Mapesil T
8. UltraCare Penetrating Plus Stone, Tile & Grout Sealer
Barrier-free showers require sloping the entire floor to the drain. When high-traction sheet vinyl is the flooring of choice, MAPEI can help with developing the pitch and keeping the vinyl in place even in the presence of heavy loads.

**Issues:** Preparing a slope for an environment with topical water; adhering vinyl tile on a sloped surface

**Solutions:** Patching and skimcoating compounds as well as high-quality adhesives

For installations over concrete with moisture issues, refer to the section on high moisture on Page 33.

1. Concrete
2. Mapecem Quickpatch
3. Mapelastic AquaDefense
4. Planiprep SC (or Planipatch)
5. Ultrabond® G21
6. Solid sheet vinyl
Rubber flooring promotes safety for patients with mobility challenges. The presence of heavy equipment such as treadmills, handrails and tables can tax ordinary adhesives. MAPEI offers a full range of solutions for rooms where everything needs to move except the adhesive.

**Issues:** Heavy equipment; point loads; flexible flooring

**Solutions:** High-compressive-strength leveler and an adhesive that allows rubber to flex with an aggressive bond

1. Concrete
2. Primer T
3. Ultraplan M20 Plus
4. Ultrabond G21
5. Granulated recycled rubber sheet (or tiles)
6. Ultrabond ECO 575
7. Vinyl (or rubber) cove base
Carpet tiles are common in waiting areas because they are durable and easy to replace. Table and chair legs can test the substrate with point loads, and the surface of the carpet is subjected to spills and wear. MAPEI products offer time- and stress-reducing options, with releasable adhesives that allow for quick replacement of stained tiles.

**Issues:** Quick installation and repairs

**Solutions:** Rapid-setting materials and fast-track installation methods

1. Concrete
2. *Planiprep SC* (or *Planipatch*)
3. *Ultrabond ECO 810*
4. Carpet tile
5. *Ultrabond ECO 575*
6. Vinyl (or rubber) cove base
Offices have typical wear patterns from rolling chairs and walkways. The materials used to flatten and adhere these areas must be designed with a high compressive strength and stay where they are placed, even under heavy traffic and aggressive cleaning methods.

**Issue:** Compressive strength for point loads and heavy traffic areas

**Solution:** High-quality adhesive
Maintenance and access areas are often finished with VCT as a cost-effective solution to a durable, cleanable floor. VCT benefits from installation products that are as easy to replace as the tiles. MAPEI’s Ultrabond ECO 711 answers this need, holding tight when you want it to but releasing when you need it to.

**Issues:** Heavy rolling loads; damage from heavy equipment; traditional “wax-and-strip” methods of maintenance

**Solution:** Durable adhesives that allow single-tile replacement

- **Concrete**
- **Planiprep SC (or Planipatch)**
- **Ultrabond ECO 711**
- **VCT**
- **Ultrabond ECO 575**
- **Vinyl (or rubber) cove base**
Special considerations must be given to concrete that has high to extreme moisture issues and also has high spots and/or low spots that exceed 1/4” in 10 feet (6 mm in 3.05 m). In many climates, moisture coming up from the substrate must be factored into the installation. A typical method for addressing moisture under moisture-sensitive floor coverings is with an epoxy moisture barrier. MAPEI has a successful track record in controlling moisture with its Planiseal VS and Planiseal VS Fast products, combined with moisture-resistant levelers.

**Issue:** Controlling moisture coming up through the slab

**Solution:** A moisture-reduction barrier that protects moisture-sensitive flooring.
Fast-track installations have pushed the leveling of slabs earlier and earlier in the life cycle of the concrete. For installations in as little as 7 days over slabs where the moisture is still high, MAPEI’s epoxy moisture-reduction barriers are the best choice. As an added benefit, the moisture-reduction barrier also keeps the concrete from drying out too quickly.

**Issues:** Fast-track installations over green concrete

**Solution:** A moisture-reduction barrier for quicker installation of subsequent layers

1. Concrete (with a CSP of #2 to #3)
2. *Planiseal VS* (or *Planiseal VS Fast*)
3. *Primer E* with sand broadcast
4. *Ultraplan LSC*
5. Appropriate adhesive based on the flooring type
6. Moisture-sensitive flooring
MAPEI’s *Ultrabond G15* can bond nearly any kind of finished surface and also acts as a moisture-reduction layer in the system.

**Issue:** Concrete with high moisture content combined with moisture-sensitive flooring

**Solutions:** Products designed for high-moisture areas to protect the flooring installation
Sustainability and healthcare go hand-in-hand

MAPEI’s philosophy is in line with this philosophy in balancing performance and sustainability, formulating products that are solvent-free and very low in volatile organic compounds (VOCs). Our products take into account the health and well-being of not only the installer but also the guests visiting your facility. To quickly identify MAPEI products that can contribute to sustainable programs, look for the Green Innovation logo next to the product.

Contact our Technical Services’ Sustainability Manager at 1-800-992-6273 for specific sustainable product certifications and documentation.

Environmental Product Declarations
An Environmental Product Declaration (EPD) uses verifiable methods (the ISO 14025 standard) to communicate the energy, water, transportation and other environmental impacts associated with manufacturing a product based on a Life Cycle Assessment (LCA) and prepared according to established rules/requirements.

MAPEI participates in “industry-average” in addition to product-specific EPDs.

Health Product Declarations
A Health Product Declaration (HPD) is an ingredient inventory that lists all of the ingredients (“formula transparency”) of a finished product and the associated health hazards with both intentional and residual ingredients.

Manufacturers’ Inventory
Manufacturers’ Inventory (MI) is a publicly available inventory of all ingredients that are identified by name and Chemical Abstract Service Registration Number (CASRN) and are categorized as GreenScreen Benchmark and GreenCircle Certified.

Cradle to Cradle
Cradle to Cradle (C2C) certifications reflect a sustainable business strategy that mimics the regenerative cycle of nature in which waste is reused. The goal of the C2C approach is to look at the entire cycle process. The end-use product is certified as basic, bronze, silver, gold or platinum level.

Green Innovation
Products with MAPEI’s “Green Innovation” logo are developed and manufactured to assist our customers in meeting the health and well-being requirements of project certification programs such as LEED, the Living Building Challenge (LBC), and the WELL Building Standard.

Green Label Plus
MAPEI’s carpet/wood/resilient adhesives, primers and moisture barriers with this logo are certified by the Carpet & Rug Institute’s Green Label Plus program for VOC emissions (CA-DPH 01350 chamber test). Additionally, MAPEI performs in-house VOC emission chamber testing (CA-DPH 01350) for our mortars, grouts, patching compounds and self-leveling products.

Green Squared
MAPEI products with this logo are certified by TCNA’s Green Squared program (ANSI A138.1), North America’s first sustainable product program developed exclusively for tiles and tile installation materials and accepted in LEED v4 credit program. SCS Global Services (SCS) is the third-party certifier for these products.

Red List Free
When a product is in its developmental stage, all factors influencing its impact on the environment and human health are evaluated from a sustainable perspective. This evaluation includes reducing and replacing “chemicals of concern” (e.g., formaldehyde, phthalates and isocyanates) with chemicals that have a lower risk, which then grants products with Living Building Challenge’s “Red List free” status.
characteristics, which produce low residual faster because of its superior drying-out nonvitreous tiles. a dry-set mortar over plywood or to set always use a latex additive when applying thaw durability. To ensure proper flexibility, flexural strength, elongation and freeze/ system has exceptional bond strength, a premium-grade dry-set mortar. This develops high, early mechanical strength the industry's first and only fast-curing performance, flexible mortar systems. As Granirapid® is the next generation of high-performance, flexible mortar systems. As the industry's first and only fast-curing system geared for fast-track projects, it develops high, early mechanical strength and can be specified for the same demanding applications as Keralastic®. However, Granirapid® will cure considerably faster because of its superior drying-out characteristics, which produce low residual moisture behind the tile after 24 hours, and does not contribute to efflorescence. When installed in conjunction with Ultracolor® Plus FA grout, Granirapid® will allow water submersion in a revolutionary 72 hours.

Kerabond/Keralastic® System

Premium, Rapid-Setting, Flexible Tile Mortar

Kerabond/Keralastic System is a high-performance, two-part system: Keralastic®, a second-generation “flexible” acrylic latex additive, is used to enhance the performance of Kerabond®, which is a premium-grade dry-set mortar. This system has exceptional bond strength, flexural strength, elongation and freeze/thaw durability. To ensure proper flexibility, always use a latex additive when applying a dry-set mortar over plywood or to set nonvitreous tiles.

Kerapoxy® CQ

Premium Epoxy Grout and Mortar with Color-Coated Quartz Kerapoxy CQ is an improved, two-component, 100%-solids epoxy grout and mortar that is nonsagging/nonslumping in joints up to 3/8” (10 mm) in width, water-cleanable and easy to apply. Kerapoxy CQ uses a proprietary aggregate to achieve its durable color, making it excellent for countertops, high-traffic areas, and areas needing stain and chemical resistance. Easy to maintain, Kerapoxy CQ will clean to the original color and contains BioBlock® technology to help protect against mold and mildew.

Kerapoxy® IEG CQ

100%-Solids, Industrial-Grade Epoxy Grout with Color-Coated Quartz Kerapoxy IEG CQ is a water-cleanable, 100%-solids epoxy grout with high chemical and stain resistance. It is a nonshrinking, nonsagging, fast-curing, efflorescence-free grout. Color-coated quartz dramatically improves its cleanability, so that Kerapoxy® IEG CQ leaves very little film residue during cleanup of excess grout with a grout float. The color-coated quartz also eliminates pigment bleed, so tiles are not stained during installation.

This grout is perfectly suited for use in commercial kitchens, meat packing houses, and any commercial and institutional floors that require daily cleaning with enzymatic cleaners. Kerapoxy® IEG CQ is ideal for applications where high-strength, mold- and mildew-resistant grout joints are required. In addition, it has high temperature resistance and can be steam-cleaned.

Mapebond™ 700

Solvent-Based Contact Adhesive Mapebond 700 is a quick-drying, solvent-based, high-tack contact adhesive. It is specifically formulated to promote maximum adhesion of MAPEI waterproofing membranes to various substrates.

Mapebond™ 710

Low-VOC, Solvent-Based Contact Adhesive Mapebond 710 is a low-VOC, quick-drying, solvent-based, high-tack contact adhesive. It is specifically formulated to promote maximum adhesion of MAPEI waterproofing membranes to various substrates.

Mapebond™ 720

Water-Based Contact Adhesive Mapebond 720 is a quick-drying, water-based, high-tack contact adhesive. It is specifically formulated to promote maximum adhesion of MAPEI waterproofing membranes to various substrates.
Mapedrain® TD Drainage Composite

High-Strength, High-Flow Drainage Composite for Foundations

Mapedrain TD Drainage Composite is a high-strength, three-dimensional modular drainage and collection composite for foundations. It consists of a nonwoven filter fabric that is bonded to and wrapped around a molded polypropylene core, minimizing fabric intrusion into the drainage channels that are caused by overburden pressure. The filter fabric allows water to pass freely into the drainage core, which provides hydrostatic relief while preventing the passage of soil or sand particles that might clog the core. Mapedrain TD Drainage Composite is designed to replace a conventional gravel-covered pipe drain.

Mapedrain® TD Fittings

Fittings for Installing Mapedrain TD Drainage Composite

Mapedrain TD Fittings consist of end outlet, side outlet, splice and corner fittings that are made out of polyethylene and assist in installing Mapedrain TD Drainage Composite. The end outlet fitting connects the end of Mapedrain TD Drainage Composite to a 4” (10 cm) corrugated pipe. The side outlet fitting connects the side of Mapedrain TD Drainage Composite to a 4” (10 cm) corrugated pipe. The splice fitting connects two pieces of Mapedrain TD Drainage Composite end to end. And the corner fitting connects two pieces of Mapedrain TD Drainage Composite together at the inside or outside corners of a building.

Mapelflex® P1

One-Component, Nonsag Elastomeric Polyurethane Sealant

Mapelflex P1 is a high-performance, one-component, elastomeric, moisture-cured, polyurethane sealant and adhesive. Mapelflex P1 offers excellent adhesion to most surfaces, superior gunning and tooling, as well as excellent flexibility for moving joints. Mapelflex P1 meets the requirements of 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; and CAN/CGSB-19.13-M87.

Mapefloor™ Finish 415 NA

Two-Component, Polyurethane Topcoat for Mapefloor Parking Deck System

Mapefloor Finish 415 NA is a two-component, solvent-free, aromatic polyurethane topcoat specifically designed to provide a protective wear coat for elevated concrete surfaces, where the Mapefloor parking deck system is utilized. Mapefloor Finish 415 NA, in combination with the proper Mapefloor parking deck system, protects concrete substrates from water and salt intrusion while, at the same time, providing a seamless, attractive, slip-resistant wearing surface.

Mapefloor™ PU 400 FC

Two-Component, Fast Curing, Polyurethane Basecoat for Mapefloor Parking Deck System

Mapefloor PU 400 FC is a two-component, fast-curing, polyurethane basecoat specifically designed for use as a waterproofing membrane for elevated concrete surfaces where the Mapefloor parking deck system is utilized. With its high elongation and crack-bridging properties, Mapefloor PU 400 FC is suited as a basecoat layer on concrete substrates subject to vibration.

Mapeguard® 2

Premium Crack-Isolation and Sound-Reduction Sheet Membrane

Mapeguard 2 is a next-generation, flexible, thin, 40-mil, lightweight, load-bearing, fabric-reinforced “peel-and-stick” crack-isolation membrane. After application, ceramic tile or stone can be installed immediately with any polymer-modified cement-based mortar. Glue-down wood flooring can also be installed with any Mapei urethane adhesive.

Mapeguard 2 helps to prevent existing or future in-plane floor cracks (with movement up to 3/8” [10 mm] wide) from transmitting through grout, ceramic tile or natural stone. It also reduces the transmission of impact sound (footsteps, dropped objects, etc.) and airborne sound (voice, TV, etc.) through floors when installed under ceramic tile, stone or wood-floor coverings.

MAPEI SM Primer™

Water-Based Primer for MAPEI Peel-and-Stick Membranes

MAPEI SM Primer is a ready-to-use, fast-drying, water-based, latex primer for use under MAPEI’s peel-and-stick sheet membranes on residential and commercial indoor or outdoor floors. MAPEI SM Primer greatly increases the bond of MAPEI’s peel-and-stick sheet membranes to concrete, plywood and other approved, properly prepared floors. It can be applied with a roller or brush, is white in color and dries clear.

MAPEI Ultralite™ S2

Premium, Highly Deformable, Lightweight Thin-Tile Mortar with Polymer

MAPEI Ultralite S2 is a premium-grade, lightweight, single-component thin-set mortar that is ideal for thin-tile applications. This high-performance, highly deformable, polymer-modified mortar is formulated with Easy Glide Technology™ for ease of application. MAPEI Ultralite S2 features a long open time, extended coverage and superior transfer properties to enhance back-buttering, which is ideal for thin porcelain tiles as well as ceramic tiles and stone material. MAPEI Ultralite S2’s unique Ultralite Technology™ provides twice the coverage of a standard thin-set mortar per pound/kg and may contribute to LEED points with 20% recycled content.

Mapelastic® AquaDefense

Premium Waterproofing and Crack-Isolation Membrane

Mapelastic AquaDefense is a premixed, advanced liquid-rubber, extremely quick-drying waterproofing and crack-isolation membrane for installation under ceramic tile or stone in residential, commercial and industrial environments. Mapelastic AquaDefense provides a thin, continuous barrier to protect adjacent rooms and floors below from water damage. For common problem areas like coves, corners, cracks and drains, it can be combined with MAPEI’s optional Reinforcing Fabric or Mapeband® accessories (cove roll and drain flash) to provide additional protection. Mapelastic AquaDefense dries after about 30 to 50 minutes and is then ready to receive any MAPEI polymer or epoxy mortar. Mapelastic AquaDefense can be flood-tested after 12 hours of drying time, is IAPMO-listed for use as a shower-pan liner, and exceeds ANSI A118.10 and ANSI A118.12 standards.
Mapelastic® 315 ™
Professional, Cement-Based Waterproofing Membrane
Mapelastic 315 is a trowel-applied, flexible, fiber-mesh-reinforced waterproofing and crack-isolation membrane for installation under ceramic tile and stone on indoor/outdoor residential, commercial and industrial intermittent wet and submerged applications. Mapelastic 315 provides an excellent barrier to prevent water from migrating into other areas. Mapelastic 315 is compatible with any polymer-modified cement-based mortar (ANSI A118.4 or better) or epoxy mortar (ANSI A118.3). Mapelastic 315 exceeds ANSI A118.10 requirements for waterproofing and is IAPMO-listed for use as a shower-pan liner.

Mapelastic™ Granules
Sodium Bentonite Granules
Mapelastic Granules are sodium bentonite clay granules used as a detailing accessory material in conjunction with Mapelastic HW and Mapelastic SW waterproofing membranes. When Mapelastic Granules come into contact with moisture, they form into a dense, low-permeable gel that produces a seamless waterproofing system when combined with Mapelastic HW or Mapelastic SW waterproofing membrane.

Mapelastic™ HW
Bentonite Geotextile Sheet Waterproofing Membrane
Mapelastic HW waterproofing membrane is composed of sodium bentonite clay encapsulated between two polypropylene geotextile fabrics—a nonwoven and a woven fabric—at a rate of 1.1 lbs. per sq. ft. (5.5 kg per m²). The nonwoven fabric is needle-punched through to the woven fabric, with thousands of fibers mechanically locking the sodium bentonite blend in place. After backfill is placed and confined under pressure, Mapelastic HW hydrates and forms a monolithic waterproofing membrane when exposed to moisture. The proprietary blend of sodium bentonite and polymer enables Mapelastic SW to form this monolithic waterproofing membrane when exposed to salt and other contaminants.

Mapelastic SW contains zero VOCs and can be installed in most weather conditions as well as to green concrete. The swelling characteristics of the sodium bentonite clay in Mapelastic HW can seal small concrete cracks caused by ground settlement, concrete shrinkage or seismic action. Mapelastic HW also forms a strong mechanical bond to concrete when the concrete is poured onto the nonwoven geotextile fibers.

Mapelastic™ Sealant
Detailing Sealant for Mapelastic HW and Mapelastic SW
Mapelastic Sealant is a trowel-grade sealant, composed of sodium bentonite clay and specially designed polymers, that is used as a detailing accessory in conjunction with Mapelastic HW and Mapelastic SW waterproofing membranes. When Mapelastic Sealant comes into contact with moisture, it swells to seal against water intrusion. Mapelastic Sealant is easily applied and bonds to most substrates. When used with Mapelastic HW or Mapelastic SW, Mapelastic Sealant forms a seamless waterproofing system.

Mapesonic™ SW
Bentonite Geotextile Sheet Waterproofing Membrane for Salt/Contaminated Groundwater
Mapesonic SW waterproofing membrane is composed of a proprietary blend of sodium bentonite and a special polymer encapsulated between two polypropylene geotextile fabrics—a nonwoven and a woven fabric—at a rate of 1.1 lbs. per sq. ft. (5.3 kg per m²). The nonwoven fabric is needle-punched through to the woven fabric, with thousands of fibers mechanically locking the sodium bentonite blend in place. After backfill is placed and confined under pressure, Mapesonic SW hydrates and forms a monolithic waterproofing membrane when exposed to moisture.

The proprietary blend of sodium bentonite and polymer enables Mapesonic SW to form this monolithic waterproofing membrane when exposed to salt and other contaminants.

Mapesonic SW contains zero VOCs and can be installed in most weather conditions as well as to green concrete. The swelling characteristics of the sodium bentonite clay in Mapesonic SW can seal small concrete cracks caused by ground settlement, concrete shrinkage or seismic action. Mapesonic SW also forms a strong mechanical bond to concrete when the concrete is poured onto the nonwoven geotextile fibers.

Mapeshield™ I
Pure Zinc Galvanic Anode
Mapeshield I is a pure zinc anode for cathodic protection of reinforcing steel against corrosion in new, reinforced structures as well as structures requiring repair.

Mapesonic™ 2
Premium Sound-Reduction and Crack-Isolation Sheet Membrane
Mapesonic 2 is a patent-pending, next-generation, flexible, 76-mil-thin, lightweight, load-bearing, fabric-reinforced “peel-and-stick” sound-reduction and crack-isolation membrane. Application of Mapesonic 2 can be immediately followed by installation of flooring: ceramic tile or stone with a recommended MAPEI polymer-modified, cement-based mortar; luxury vinyl tile or luxury vinyl plank with an appropriate MAPEI flooring adhesive; or glue-down wood flooring with any MAPEI urethane or hybrid-polymer-based wood adhesive.

Mapesonic 2 reduces transmission of impact sound (such as footsteps and dropped objects) and airborne sound (such as voice and TV) through floors when installed under ceramic tile, stone, vinyl and wood floor coverings. It also helps to prevent existing or future in-plane floor cracks (with movement up to 3/8” [10 mm] wide) from transmitting through grout, ceramic tile and natural-stone assemblies.

Mapethene™ HT
High-Temperature, Self-Adhered Sheet Waterproofing
Mapethene HT is a 60-mil, self-adhering sheet membrane consisting of 56 mils of rubberized asphalt laminated to a 4-mil, cross-laminated polyethylene film. The combination of these two excellent waterproofing materials provides a durable, high-performance waterproofing membrane. Mapethene HT membrane is suitable for installations where the ambient and substrate temperatures are above 40°F (4°C). Mapethene LT is designed for ambient and substrate temperatures between 25°F and 60°F (-4°C and 16°C).

Mapethene™ LT
Low-Temperature, Self-Adhered Sheet Waterproofing
Mapethene LT is a 60-mil, self-adhering sheet membrane consisting of 56 mils of rubberized asphalt laminated to a 4-mil, cross-laminated polyethylene film. The combination of these two excellent...
waterproofing materials provides a durable, high-performance waterproofing membrane. Mapethene LT membrane is suitable for installations where the ambient temperature is between 25°F and 60°F (-4°C and 16°C). When the ambient or substrate temperature is above 60°F (16°C), Mapethene HT should be used.

**Modified Mortar Bed**

Polymer-Modified Thick-Bed and Render Mortar

Modified Mortar Bed is a pre-blended, cement-based, polymer-modified thick-bed and render mortar that includes a blend of select aggregates. Rather than requiring the use of a latex additive, it only needs mixing with water to produce a thick-bed mortar of exceptional strength.

**Planibond® EBA**

High-Modulus Epoxy Bonding Agent

Planibond EBA is a two-component, multipurpose, high-modulus epoxy bonding agent. Planibond EBA is nonshrinking, 100%-solids and moisture-tolerant. Planibond EBA is used primarily as a bonding agent for screeds and repair mortars.

**Planicrete® W**

Flexible Setting Compound

Planicrete W is tremendously flexible and excellent for installing tile over well-supported and properly prepared steel substrates (such as ship decks, elevators, steel staircases and bank vaults). It is designed for setting most types of tile, including moisture-sensitive tile and natural stone such as Rosso Levanto marble, Negro Marquina marble, and green marble and their agglomerates.

**Planipatch**

Fast-Setting, Polymer-Modified, Cement-Based Patching Compound

Planipatch is an ultra-fast-drying, self-curing, polymer-modified, cement-based patching compound that rapidly develops high compressive strength. When Planipatch is mixed with Planipatch Plus®, the Planipatch Plus System can be used as an embossing leveler or as a patch to fill voids over properly prepared vinyl sheet goods, vinyl composition tile (VCT) and cement terrazzo before the direct glue-down installation of floor coverings.

**Planiprep® MRS**

Moisture-Resistant, High-Compressive-Strength Skimcoating Compound

Planiprep MRS is an advanced, hydraulic-cement-based skimcoating compound designed for use under moisture-controlling membranes and adhesive systems. It is especially formulated for skimcoating and patching interior horizontal concrete surfaces with high moisture content or where environmental controls are not operational. Planiprep MRS has no moisture vapor emission rate (MVER) limitations and can be installed without testing on properly prepared concrete substrates.

**Planiprep® SC**

High-Performance, Fiber-Reinforced Skimcoating Compound

Planiprep SC is a high-performance, polymer-modified, cement-based skimcoating and patching compound. Use Planiprep SC to skimcoat and smooth minor surface variations and defects on common substrates. Planiprep SC creates a strong, durable surface ready for almost any floor application. Its unique formulation mixes easily with water and produces an easy-to-apply patching compound. Rapid-setting Planiprep SC allows for fast-track flooring installations in 30 to 60 minutes after application, depending on thickness and environmental conditions.

**Planiseal® VS**

Alkali-Resistant, Epoxy Moisture-Reduction Barrier

Planiseal VS is an alkali-resistant, two-component, 100%-solids epoxy coating that effectively stops moisture-related problems with floor coverings. In addition, Planiseal VS expedites floor-covering installations by eliminating the traditional wait time required for new concrete slabs to reach moisture levels suitable for installations.

**Planiseal® VS Fast**

Fast-Track, Alkali-Resistant, Epoxy Moisture-Reduction Barrier

Planiseal VS Fast is a fast-curing, alkali-resistant, two-component, 100%-solids epoxy coating that effectively stops moisture-related problems over concrete that impact floor coverings. In addition, it significantly expedites floor installations by eliminating the traditional wait time required for new concrete slabs to reach moisture levels suitable for floor-covering installation.

**Planitop® 12 SR**

Sulfate-Resistant, Vertical, Overhead and Horizontal Repair Mortar with Silica Fume

Planitop 12 SR is a two-component, shrinkage-compensated, cementitious repair mortar. Planitop 12 SR is fiber-reinforced and contains both silica fume and a corrosion inhibitor, and is intended for the repair of vertical, overhead and horizontal concrete surfaces. Planitop 12 SR can be used between the temperatures of 45°F and 95°F (7°C and 35°C).

**Planitop® 330 Fast**

Quick-Setting, Fiber-Reinforced, Cementitious Rendering Mortar

Planitop 330 Fast is a quick-setting, polymer-modified, fiber-reinforced cementitious rendering, patching and leveling mortar for interior and exterior walls, floors and submerged areas. It can be applied from 1/8” to 1-1/4” (3 mm to 3.2 cm) in thickness to ramp, smooth or level surfaces. Eliminating the need for a latex additive, Planitop 330 Fast requires only mixing with water to produce a nonsagging mortar that is ready for tile installation in as little as 90 minutes.

**Planitop® XS**

One-Component, Fast-Setting, Extended-Working-Time, Vertical and Overhead Repair Mortar

Planitop XS is an extended-working-time variation of Planitop X. Shrinkage-compensated, fiber-reinforced, polymer-modified and containing a proprietary corrosion inhibitor, Planitop XS features Planitop X’s outstanding workability and versatility. Ideal for a wide variety of vertical and overhead concrete repairs, Planitop XS can be applied from featheredge to 4” (10 cm) per lift. Planitop XS dries to a light gray color, blending well with most concrete surfaces.

**Primer E**

High-Performance, 100%-Solids Epoxy Primer

Primer E is a two-component, 100%-solids epoxy primer and bonding agent designed for MAPEI self-leveling underlayments when using a sand broadcast method. Primer E is the most effective method for bonding to nonporous,
dense substrates before installing self-leveling underlayments subject to high stress. Primer E's low viscosity makes installation fast and easy, and provides excellent penetration into the substrate and therefore a tenacious bond.

**Primer SN™**
Two-Component, Fillerized Epoxy Primer
Primer SN is a two-component, fillerized epoxy primer specifically designed to enhance adhesion of multi-layer flooring systems, such as MAPEI’s *Mapelfloor™* polyurethane and epoxy deck and flooring systems, as well as a primer for cement screeds and epoxy mortars. It is typically applied on concrete surfaces, such as floor slabs in institutional buildings, storage and logistical areas, parking garages, balconies and walkways. Low in VOCs and viscosity, Primer SN penetrates well for an excellent mechanical and chemical bond both with the substrate and with coatings that are subsequently applied to the primer coating.

**Primer T™**
All-Purpose Primer for Self-Leveling Underlayments
Primer T is a low-VOC, water-based acrylic primer that enhances the performance and adhesion of self-leveling underlayments (SLUs) on nonabsorbent surfaces such as ceramic tile, vinyl composition tile (VCT), epoxy moisture barriers and adhesive residue, as well as profiled, absorbent surfaces. Suitable for a wide variety of substrates, Primer T combines excellent versatility with an easy, low-odor application.

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

**Ultrabond ECO® 285**
Premium, Wet-Set Carpet Adhesive
Ultrabond ECO 285 is a FastTrack Ready™ product designed specifically for the installation of carpet with hot-melt backings. Its high-solids formulation has been developed for use in the wet-lay installation method, so that no flash time is required. Its rapid tack development and superior bond strength make Ultrabond ECO 285 the adhesive of choice for virtually all carpet installations.

**Ultrabond ECO® 360**
Premium, High-Performance Adhesive for Solid Vinyl Sheet, Tile and Plank
Ultrabond ECO 360 is a proprietary, high-performance, wet-lay and pressure-sensitive adhesive designed specifically for installing homogeneous and heterogeneous solid vinyl flooring. With its strong, durable, moisture-resistant and alkali-resistant bond, it is ideal for both commercial and institutional applications. Ultrabond ECO 360 has an excellent open time, develops strength quickly, performs well under rolling loads and resists indentation. Its low volatile organic content makes it ideal for use in occupied buildings such as hospitals and medical centers.

**Ultrabond ECO® 560**
Premium, Universal Rubber-Flooring Adhesive
Ultrabond ECO 560 is a proprietary acrylic polymer-based adhesive with enhanced bonding characteristics specifically for rubber sheet and tile flooring. It can also be used to bond solid vinyl sheet, plank and tile, vinyl composition tile (VCT); and felt-backed vinyl sheet flooring. Ultrabond ECO 560 flashes quickly to its tacky phase and is suitable for use over porous and nonporous substrates. Its unique performance characteristics, non-hazardous components and low volatile organic content make it suitable for use when two-component urethane products cannot be recommended.

**Ultrabond ECO® 575**
Premium, Wall-Base Adhesive
Ultrabond ECO 575 is a premium wall-base adhesive specifically designed to provide superior bond and impact resistance for rubber, vinyl and carpet wall base. Ultrabond ECO 575 also has been recently reformulated to offer even greater grab and wet strength, keeping corners wrapped tight. Its acrylic-based, light-colored formulation won’t stain even the whitest wall base. In addition, Ultrabond ECO 575 can be used to install various types of carpet in vertical/wall applications.

**Ultrabond ECO® 711**
Premium, Clear, Thin-Spread VCT Adhesive
Ultrabond ECO 711 has been reformulated to provide even faster drying times, enhanced grab and greater slip resistance. Use to install vinyl composition tile (VCT) on approved substrates as well as over an existing single layer of VCT. Now a FastTrack Ready™ product, Ultrabond ECO 711 has been formulated for higher moisture resistance, making it suitable for use over fresh concrete slabs with moisture vapor emission rates (MVERs) up to 8 lbs. per 1,000 sq. ft. (3.63 kg per 92.9 m²) per 24 hours.

**Ultrabond ECO® 810**
Professional Carpet Tile Adhesive
Ultrabond ECO 810 provides quick drying times and an enhanced, aggressive tack for fast-track installations of vinyl-backed carpet tile. Flooring can be installed into Ultrabond ECO 810 in its wet state for permanent bonding. Ultrabond ECO 810 can also be allowed to dry to its tacky phase for releasable installations. Install Ultrabond ECO 810 by spray, roller or towel, depending on the installation application. This adhesive is suitable for use over fresh concrete slabs with diminishing moisture vapor emission rates (MVERs) up to 8 lbs. per 1,000 sq. ft. (3.63 kg per 92.9 m²) per 24 hours and 90% relative humidity.

**Ultrabond ECO® 885**
Premium, Polyolefin-Backed Carpet Adhesive
Ultrabond ECO 885 has been specifically designed to provide both permanent and releasable bonds for carpet and carpet tile with non-PVC, polyolefin and most “eco-type” backings. Its unique formulation has been developed to provide a very aggressive bond to polyolefin-type carpet backings where traditional adhesives will not work. Ultrabond ECO 885 can be installed into wet for permanent bonding and allowed to dry to its tacky phase for releasable installations. Ultrabond ECO 885 also can be used in fast-track construction practices where the MVER and RH are less than 8 lbs. (3.63 kg) and 90% respectively, and show diminishing results over time.

**Ultrabond ECO® 980**
Premium Urethane Adhesive for Hardwood Flooring
Ultrabond ECO 980 is a 100%-solids, one-component, moisture-cured urethane adhesive specifically designed for the installation of domestic and exotic solid and engineered wood flooring, including bamboo.

**Ultrabond® G15**
Premium, Fast-Setting, Epoxy Flooring Adhesive for High-Moisture Conditions
Ultrabond G15 is a fast-setting, two-part reactive epoxy adhesive with low volatile organic compounds (VOCs), designed...
for the installation of virgin rubber and vinyl flooring in high-moisture conditions. Ultrabond G15 provides the ultimate in bond and shear strength, can be used on concrete slabs with high moisture vapor emission rates, and is recommended for high-traffic installations and for where superior indentation resistance and performance are required.

**Ultrabond® G21**

Premium, Two-Part Urethane Flooring Adhesive

Ultrabond G21 is a two-part reactive adhesive with low volatile organic compounds (VOCs), designed for extreme indoor and outdoor flooring installations. This adhesive aggressively adheres all types of floor coverings to properly prepared metal, asphalt pavement and many other difficult-to-bond-to substrates.

**UltraCare™ Penetrating Plus Stone, Tile & Grout Sealer**

UltraCare Penetrating Plus Stone, Tile & Grout Sealer is a premium, natural-look, water-based penetrating sealer that provides maximum protection against most common stains for all interior and exterior natural stone (marble, limestone, sandstone, slate, granite, travertine, etc.), unglazed ceramic tile, mosaic and cement grout. The product can also be used as a pre-grouting sealer.

**Ultracolor® Plus FA**

Rapid-Setting, “All-in-One” Grout Replacement for Sanded and Unsanded Grouts

Ultracolor Plus FA with DropEffect™ technology is an ultra premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1.5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. Ultracolor Plus FA is specially formulated with MAPEI’s High-Hydrated Cement Technology (HCT™) to eliminate the common problems related to Portland-cement grout, such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts. Ultracolor Plus FA is formulated with 10% recycled content and meets the ANSI A138.1 specification for GreenSquared certification.

**Ultraflex™ 3**

Premium Tile Mortar with Polymer

Ultraflex 3 is a premium-grade, single-component, high-performance, polymer-modified thin-set mortar for interior and exterior installations of tile. This mortar has a high content of a unique dry polymer, resulting in superior adhesion to the substrate and tile. In addition, it can be used for most interior/exterior residential and commercial tile applications on floors and walls. Ultraflex 3 meets or exceeds ANSI A118.4E, ANSI A118.11 and ANSI A118.15E when mixed with water.

**Ultraflex™ LFT™**

Premium, Large-and-Heavy-Tile Mortar with Polymer

Ultraflex LFT is a premium, nonsag large- and-heavy-tile mortar (formerly known as “medium-bed mortar”) and thin-set mortar designed for large-format and heavy tile and stone for interior/exterior floor, wall and countertop installations. This mortar has a high content of unique dry polymer, resulting in excellent adhesion to the substrate and tile. It is formulated with Easy Glide Technology™ for ease of application.

**Ultraplan Easy**

High-Performance, Easy-Preparation, Self-Leveling Underlayment

Ultraplan Easy is an HCT™ (High-Hydrated Cement Technology)-based, quick-setting, self-leveling underlayment that typically requires only a clean, soundly bonded substrate before application. Typically requiring reduced surface preparation, Ultraplan Easy provides lower installation costs and fast turnaround on job sites. It features high strength and is able to withstand light foot traffic after 2 to 3 hours of installation.

**Ultraplan® Extreme 2**

Weather-Resistant, High-Compressive-Strength, Self-Leveling Underlayment

Ultraplan Extreme 2 is an advanced hydraulic-cement-based, self-leveling compound designed for fast-track underlayment applications. It is especially formulated for leveling interior horizontal concrete surfaces where environmental controls are not operational or the building is not enclosed. Once installed, Ultraplan Extreme 2 is not affected by exposure to intermittent rain exposure after 6 hours or to freezing temperatures after 3 days of curing. Its high compressive strength is designed to allow it to be exposed to traffic as a temporary wear layer until the floor is covered with floor covering. Ultraplan Extreme 2 has no moisture vapor emission limitations and can be installed without testing on properly prepared concrete substrates. It is the self-leveling compound of choice for use under moisture-controlling adhesive systems and epoxy moisture barriers.

**Ultraplan® LSC**

High-Flow, Fast-Setting, Self-Leveling Liquid Skimcoat

Ultraplan LSC is a super fluid, high-flow, calcium-aluminate-cement-based underlayment designed for thin-coat applications over large surfaces. Unique flow properties allow Ultraplan LSC to spread easily and quickly, potentially eliminating the need for hand-applied skimcoats. This product cures to a hard and flat surface that typically requires no further touchup or repair, accelerating floor-covering installation and reducing the need for additional patching or skimcoating materials.

**Ultraplan® M20 Plus**

Quick-Setting, High-Compressive-Strength Underlayment

Ultraplan M20 Plus is an HCT™ (High-Hydrated Cement Technology) calcium-aluminate-based, quick-setting, self-leveling, self-drying material. It is specially formulated for the resurfacing and construction of interior horizontal surfaces as a high-compressive-strength underlayment with maximum resistance to wheel tracking and indentations experienced in softer underlayments. Ultraplan M20 Plus is suitable for use as a commercial wear topping in warehouse and alternate industrial applications where an exceptional flat and smooth concrete surface is desired.

**Ultratop® PC**

High-Performance, Polishable Concrete Topping

Ultratop PC is a self-leveling, cementitious topping optimized for polishing. Ultratop PC is engineered to provide a thin resurfacing material that is extremely dense, hard and durable.

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We have all the tools to make your learning experience a success. MAPEI’s Architectural Education Program provides quality training modules related to system solutions. Our education programs include in-office presentations and on-demand Web access to our AIA registered courses, giving architects the flexibility to earn CEUs online or in-person at their design office. Visit us in the U.S. at www.mapei.us/architects or in Canada at www.mapei.ca/architects.