

PROJECT SOLUTIONS GUIDE

RETAIL AND RESTAURANTS





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Construction of retail spaces and restaurants is booming, and each project brings specific challenges. MAPEI is your partner in answering these important challenges:

Fast track – Retail spaces and restaurants can generate impressive revenue per square foot – 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 reduce installation steps or perform more quickly than current methods.



And to deal with the moisture issues that “green” concrete can pose, MAPEI offers concrete additives that can improve the performance of the concrete you select. Best of all, MAPEI's team will work with you to make sure the products you select follow your fast-track schedule too.

Longevity: Retail and restaurant buildings can't afford downtime. MAPEI is there from the first stages of construction, protecting against water intrusion with our below-grade waterproofing products. Our high-performance levelers and adhesives make sure the floors are up to the task; we stay with you until the final finishes are in place. Plus, we back our products with our industry-leading Best-BackedSM warranties that ensure we will stand behind you long after the general contractor has handed over the keys to the building.

Beauty: Today's retail and restaurant settings are showcases of architecture and design. Common areas are bright and open, and feature high-end finishes. MAPEI's experience

in working with all of the major floor and wall coverings on the market today will be your best asset in making sure that the installations are as trouble-free as they are beautiful. We also offer polishable concrete finishes, colorful (and durable) coatings for building exteriors, and a beautiful array of grout choices for tile installations.













Sustainability: In the past few years, there has been a growing demand for sustainable designs for high-rise buildings. The most common requirements are: water use and energy efficiency; indoor environmental quality (IEQ); the building's impact on the atmosphere (carbon footprint); and the materials and resources specified for the project.

This trend has also led to an evolution in the systems and techniques, and MAPEI has formulated its products accordingly. We offer adhesives, binders, admixtures, ready-mixed screed mortars, primers, consolidators and waterproofing products that provide sustainability in a transparent manner. For example, we provide products that are solvent-free and have low amounts of volatile organic compounds (VOC), keeping in mind the health and well-being of the installer and the occupants alike. For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, email sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

This brochure will introduce you to MAPEI products for the common systems found in retail and restaurant settings, to help make your next project a reality.

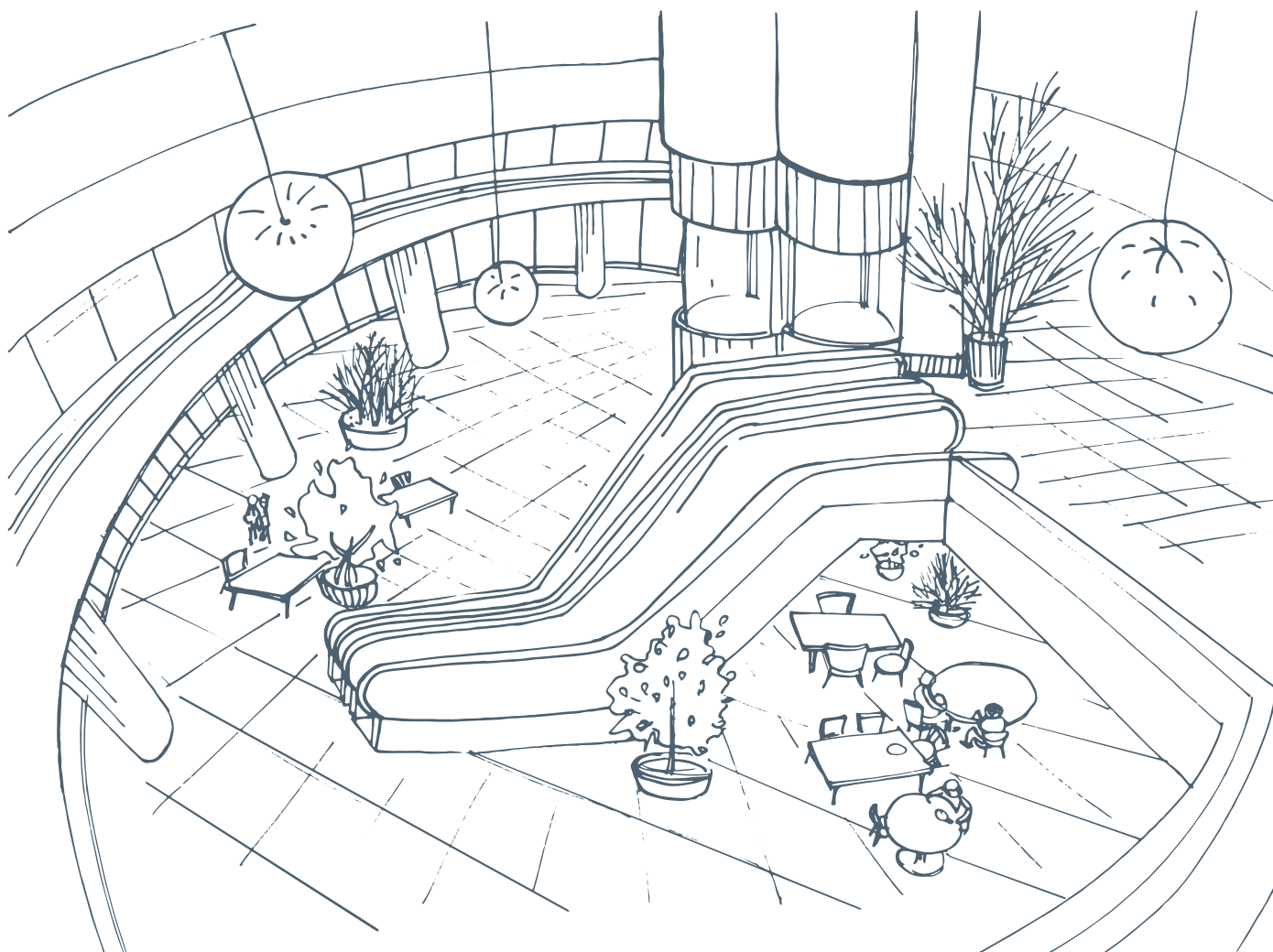
Full-Breadth Product Lines

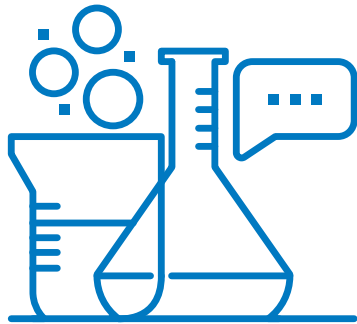
MAPEI products offer complete installation system solutions to address all your flooring, tile and concrete restoration needs from a single source.

- | | |
|--|--|
|  TILE & STONE INSTALLATION SYSTEMS |  ADMIXTURES FOR CONCRETE |
|  FLOOR COVERING INSTALLATION SYSTEMS |  WATERPROOFING SYSTEMS |
|  PRODUCTS FOR SPORTS FLOORING |  CEMENT ADDITIVES |
|  PRODUCTS FOR WOOD FLOORING |  PRODUCTS FOR THE MARINE INDUSTRY* |
|  CONCRETE RESTORATION SYSTEMS |  CEMENTITIOUS AND RESIN FLOORING SYSTEMS** |
|  PRODUCTS FOR STRUCTURAL STRENGTHENING |  PRODUCTS FOR UNDERGROUND CONSTRUCTION (UTT) |

* USA & Puerto Rico only

** Canada & Puerto Rico only





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 construction 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:

- Easy Glide Technology™, which offers extreme ease of application, yielding a buttery consistency that reduces fatigue during installation.
- *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 methods.

Quality Control and Efficient Manufacturing

In North America, most MAPEI facilities have been certified to ISO 9001 quality management and ISO 14001 environmental management standards. 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: 83 production facilities in 36 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.

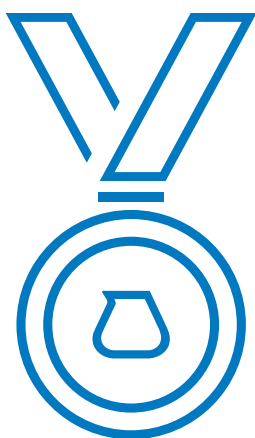
MAPEI's production efforts are reflected through optimization of logistics costs, close proximity to our customers, and a guarantee of maximum efficiency of production processes while respecting the environment.



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-BackedSM 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 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).



EXTERIOR

BELOW-GRADE WATERPROOFING

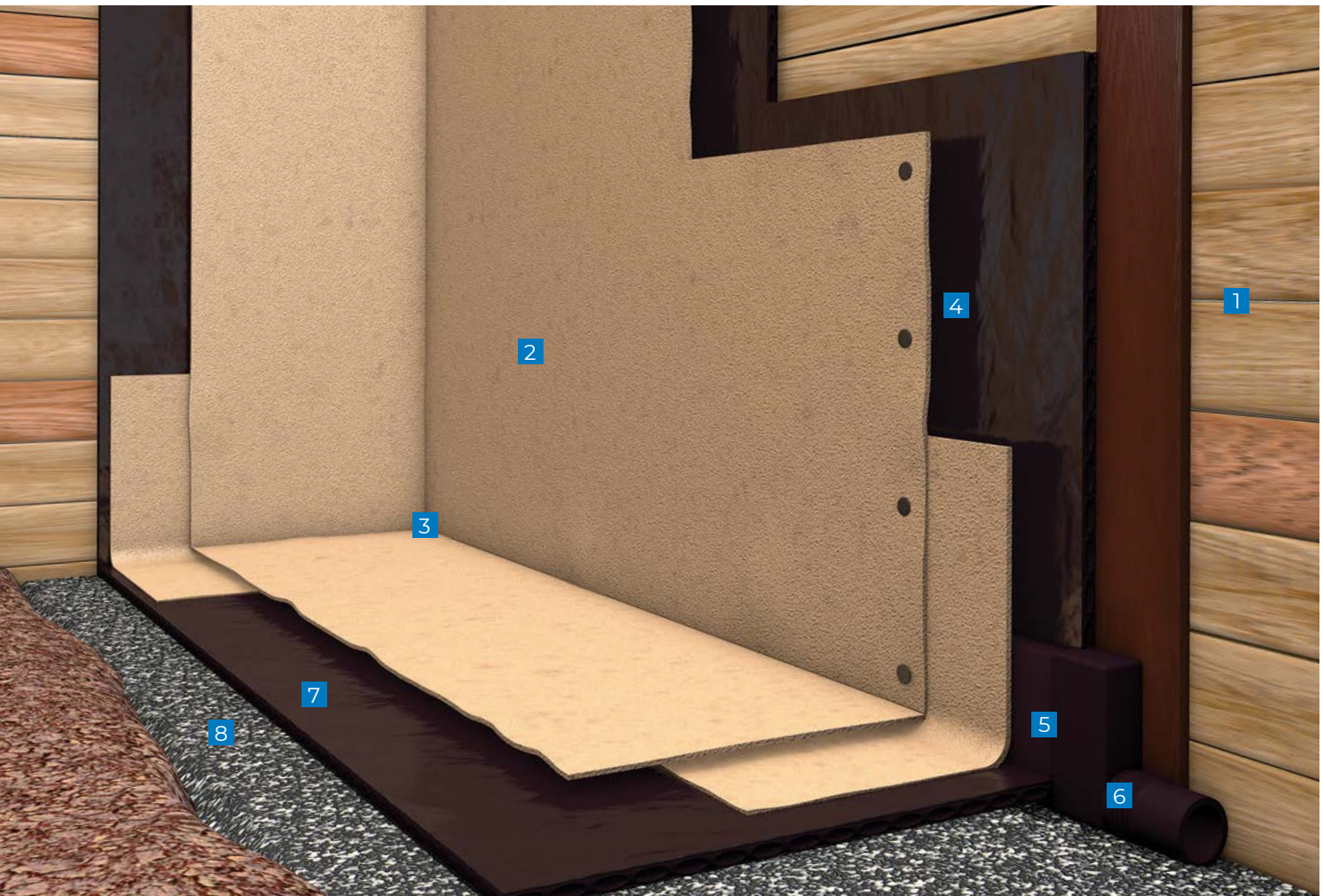
BLINDSIDE CONSTRUCTION

Blindside waterproofing is often utilized for construction 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 limited ability for excavation during construction, and are adjacent to an existing structure or property line

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

- 1 Wood lagging
- 2 *Mapeproof*™ HW (or *Mapeproof* SW)
- 3 *Mapeproof* Sealant
- 4 *Mapedrain*™ 20
- 5 *Mapedrain* TD Drainage Composite
- 6 *Mapedrain* TD Fittings (end outlet)
- 7 *Mapedrain* 30
- 8 Compacted gravel or concrete working slab



EXTERIOR

BELOW-GRADE WATERPROOFING

POSITIVE-SIDE CONSTRUCTION

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

- 1 Concrete
- 2 *Mapebond 710* (or *Mapebond 720*)
- 3 *Mapeflex P2 NS*
- 4 *Mapethene™ HT* (or *Mapethene LT*)
- 5 *Mapedrain™ 25*
- 6 *Mapedrain TD Drainage Composite*
- 7 *Mapedrain TD Fittings* (end outlet)
- 8 Concrete footing
- 9 Soil



EXTERIOR

BUILDING VENEER

TILE OR STONE

Building exteriors are subjected to a wide variety of conditions. From UV exposure to high winds 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 materials designed to not contribute to efflorescence and to resist freeze/thaw damage

- 1 Concrete
- 2 *Modified Mortar Bed*
- 3 *Mapelastic® AquaDefense* (or *Mapelastic Turbo* or *Mapelastic 315*)
- 4 *Granirapid® System*
- 5 Ceramic tile or stone
- 6 *Ultracolor® Plus FA*
- 7 *Mapesil™ T*
- 8 *UltraCare™ Penetrating Plus Stone, Tile & Grout Sealer*



EXTERIOR

ESPLANADE/MALL/
RESTAURANT
EXTERIOR AREA

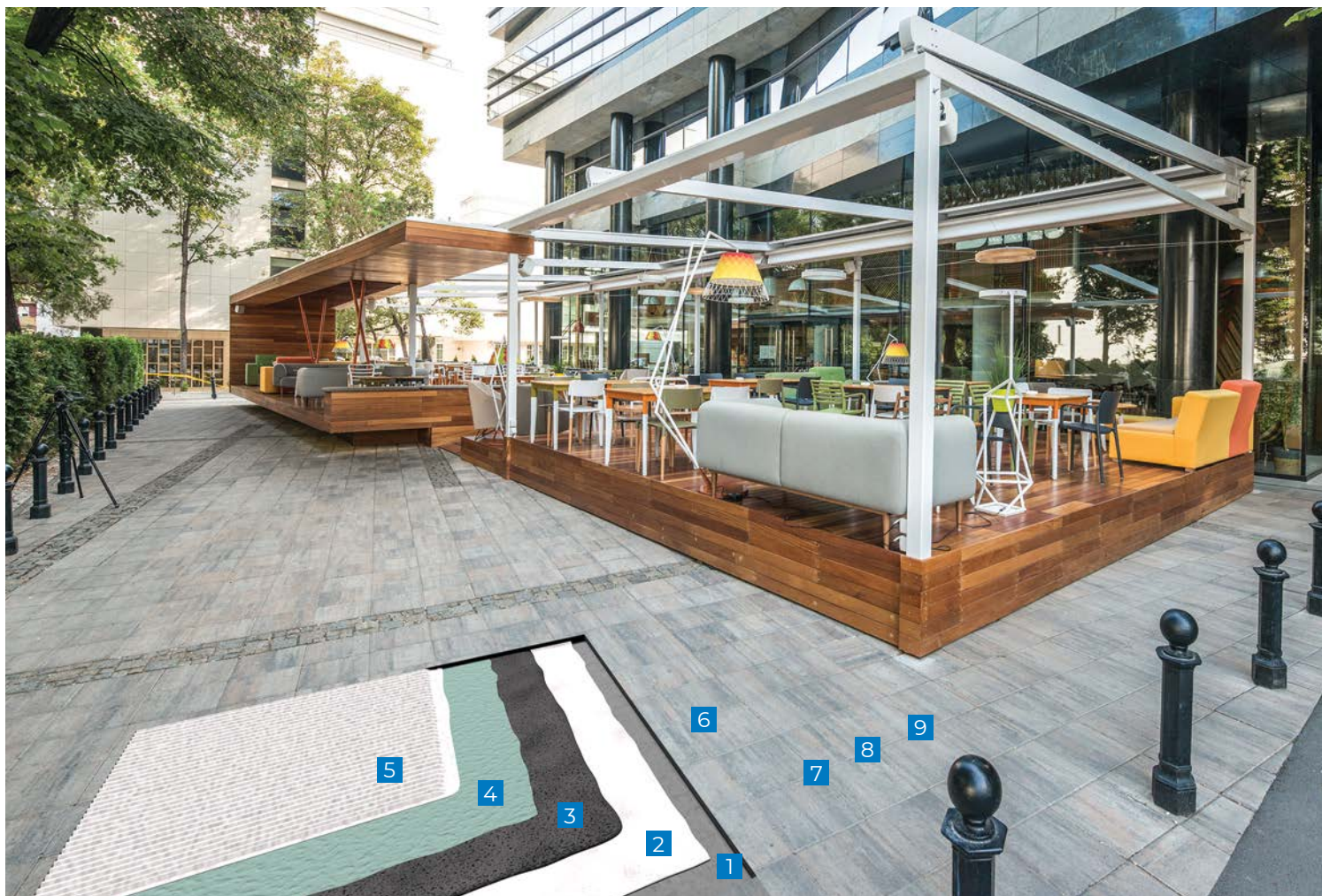
TILE OR STONE

Tile and stone flooring in exterior applications can allow inside spaces to flow outside seamlessly. Exterior applications do have challenges that inside installations do not, such as temperature swings, freeze/thaw considerations and vehicular traffic. The correct products beneath and around the tile or stone can be the difference between short-term problems and long-term solutions.

Issues: High traffic, pivot areas, traffic patterns

Solution: Suitable tile and stone installation systems that provide durable long-lasting finishes

- 1 Concrete
- 2 *Ultraflex™ 2* slurry coat
- 3 *Modified Mortar Bed*
- 4 *Mapelastic® AquaDefense*
- 5 *Keraflex™ Super*
- 6 Tile or stone
- 7 *Kerapoxy® CQ*
- 8 *Mapesil™ T*
- 9 *UltraCare™ Penetrating Plus* Stone, Tile & Grout Sealer



EXTERIOR

VALET AREA

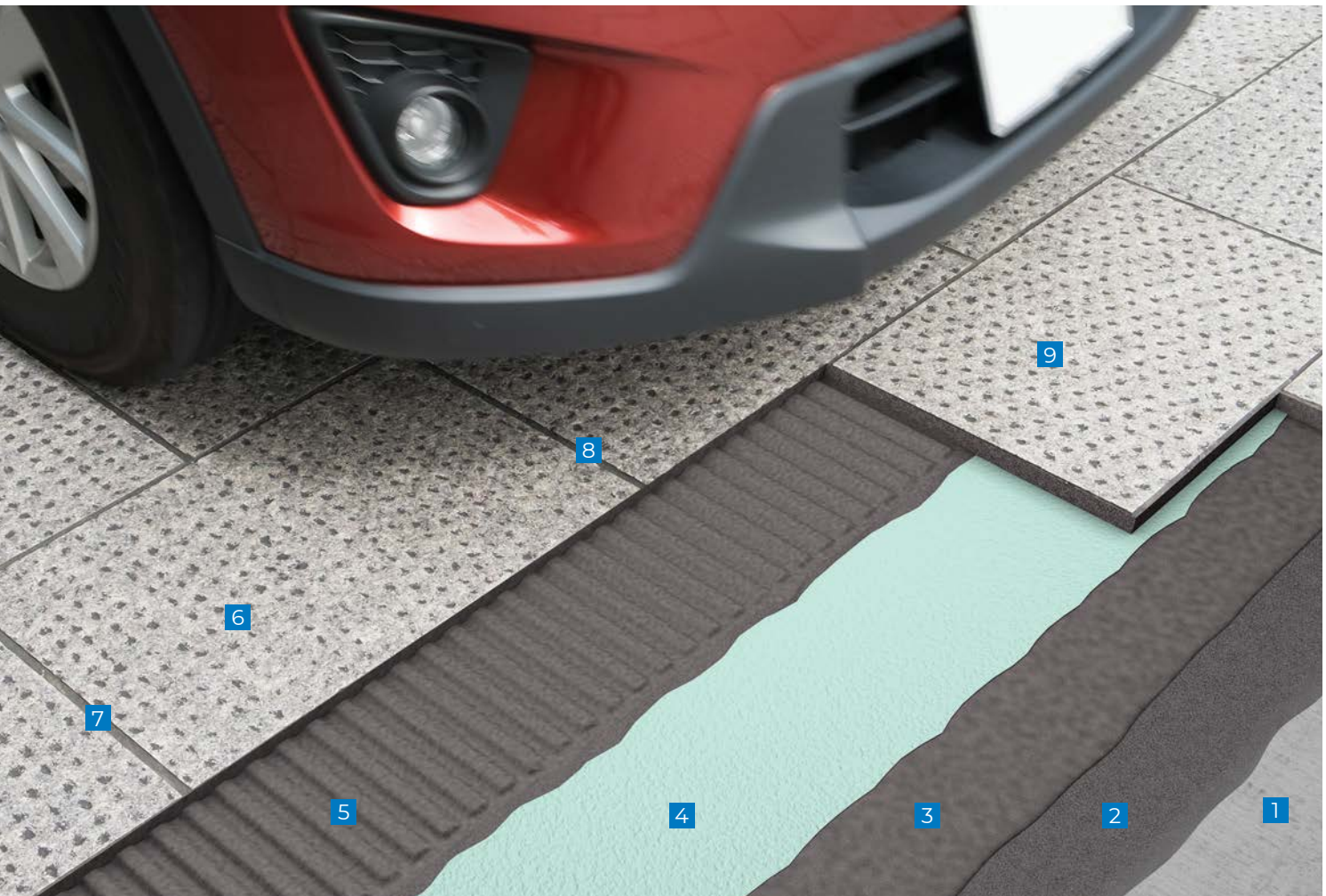
TILE OR STONE

Shopping/restaurant settings now include valet parking as part of the customer experience. These areas are often tiled for durability and ease of maintenance. Traffic is also typically accommodated in much the same manner, with covered porticos and exterior tile installations.

Issues: Vehicular traffic; weather; salts; efflorescence

Solution: Installation materials that withstand high-traffic demands and do not contribute to efflorescence

- 1 Concrete
- 2 *Ultraflex™ 2* (slurry bond coat)
- 3 *Modified Mortar Bed*
- 4 *Mapelastic® AquaDefense* (or *Mapelastic Turbo* or *Mapelastic 315*)
- 5 *Granirapid® System*
- 6 Ceramic tile (or stone)
- 7 *Ultracolor® Plus FA*
- 8 *Mapesil™ T*
- 9 *UltraCare™ Penetrating Plus* SB Stone & Porcelain Tile Sealer



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 waterproof, seal, protect and beautify

- 1 *Mapeshield™ I*
- 2 *Planitop® XS* (or *Planitop 12 SR*)
- 3 *Mapectex™ PU40*
- 4 *Elastocolor® Primer AR*
- 5 *Elastocolor Coat*

EX TER IOR

BUILDING FACADE

PROTECTIVE AND
DECORATIVE ACRYLIC
COATINGS



EXTERIOR

PARKING DECK

SYSTEM FOR HEAVY-DUTY VEHICULAR TRAFFIC

Parking decks and other exterior, pedestrian and vehicular traffic areas require rugged products developed specifically for the unique conditions that they experience. MAPEI's *Mapecfloor* family of products is engineered for parking decks and the demands of their installations.

Issues: 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 *Mapecfloor™ PU Primer* or *Primer SN™*
- 3 *Mapecfloor™ PU 400 FC*
- 4 *Mapecfloor Finish 415 NA*
- 5 *Mapecfloor Finish 450*

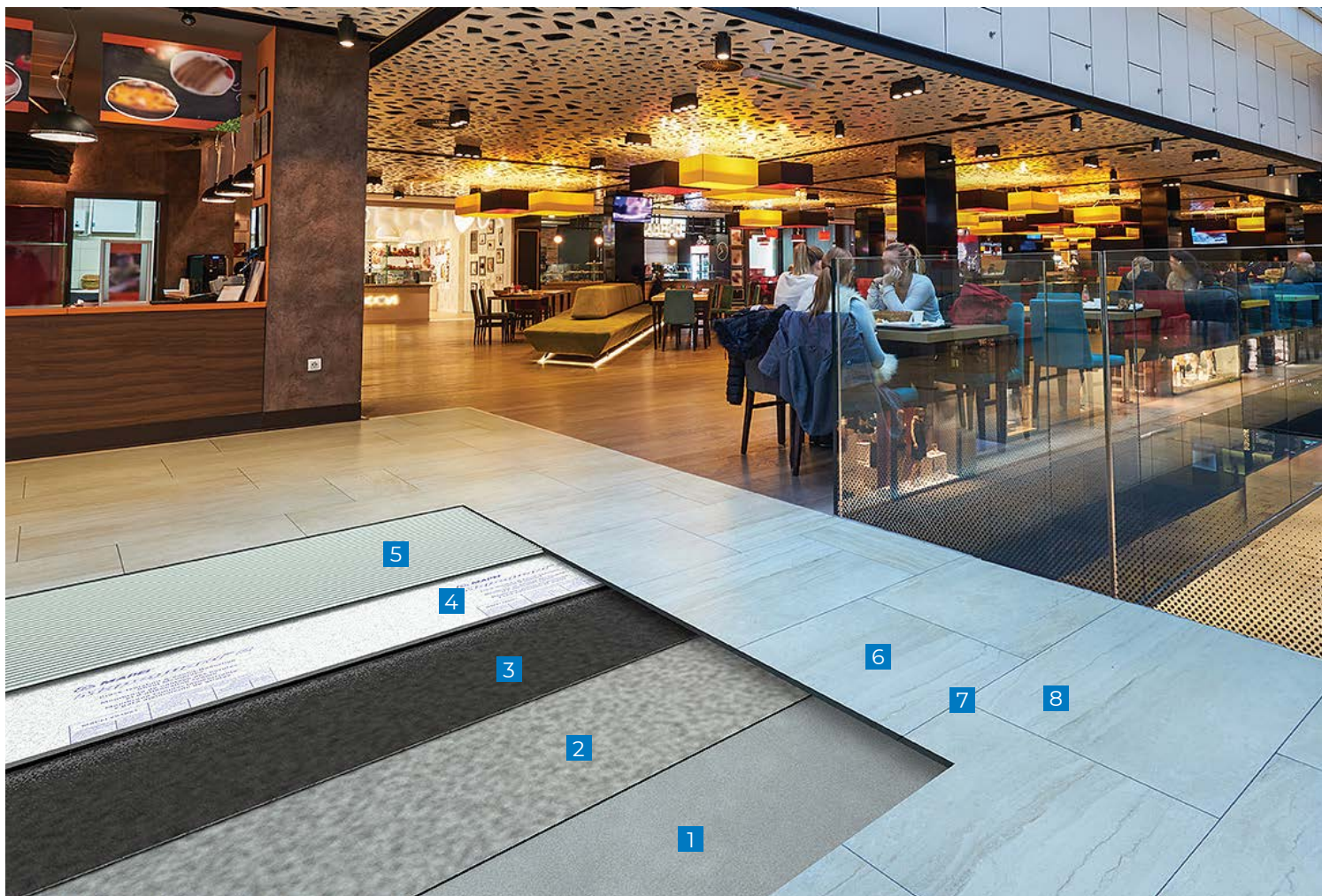


Tile and stone are synonymous with flooring in shopping malls and other enclosed areas subject to heavy foot traffic. Today's tile can mimic the look of stone, wood and even fabric with remarkable precision. The installation products selected determine how soon the floor can be returned to service and how long it will hold up.

Issues: Flexibility, pivot area, high traffic, pallet jacks

Solutions: Because there are multiple methods, contact MAPEI's Technical Services Department for guidance.

- 1 Concrete
- 2 *Mapecem® Quickpatch*
- 3 *MAPEI SM Primer™*
- 4 *Mapeguard® 2*
- 5 *Keraflex™ Super*
- 6 Ceramic tile or stone
- 7 *MAPEI Flexcolor® CQ*
- 8 *UltraCare™ Penetrating Plus*
SB Stone & Porcelain Tile Sealer



INTERIOR

RETAIL COMMON SPACES

LUXURY VINYL PLANK/TILE

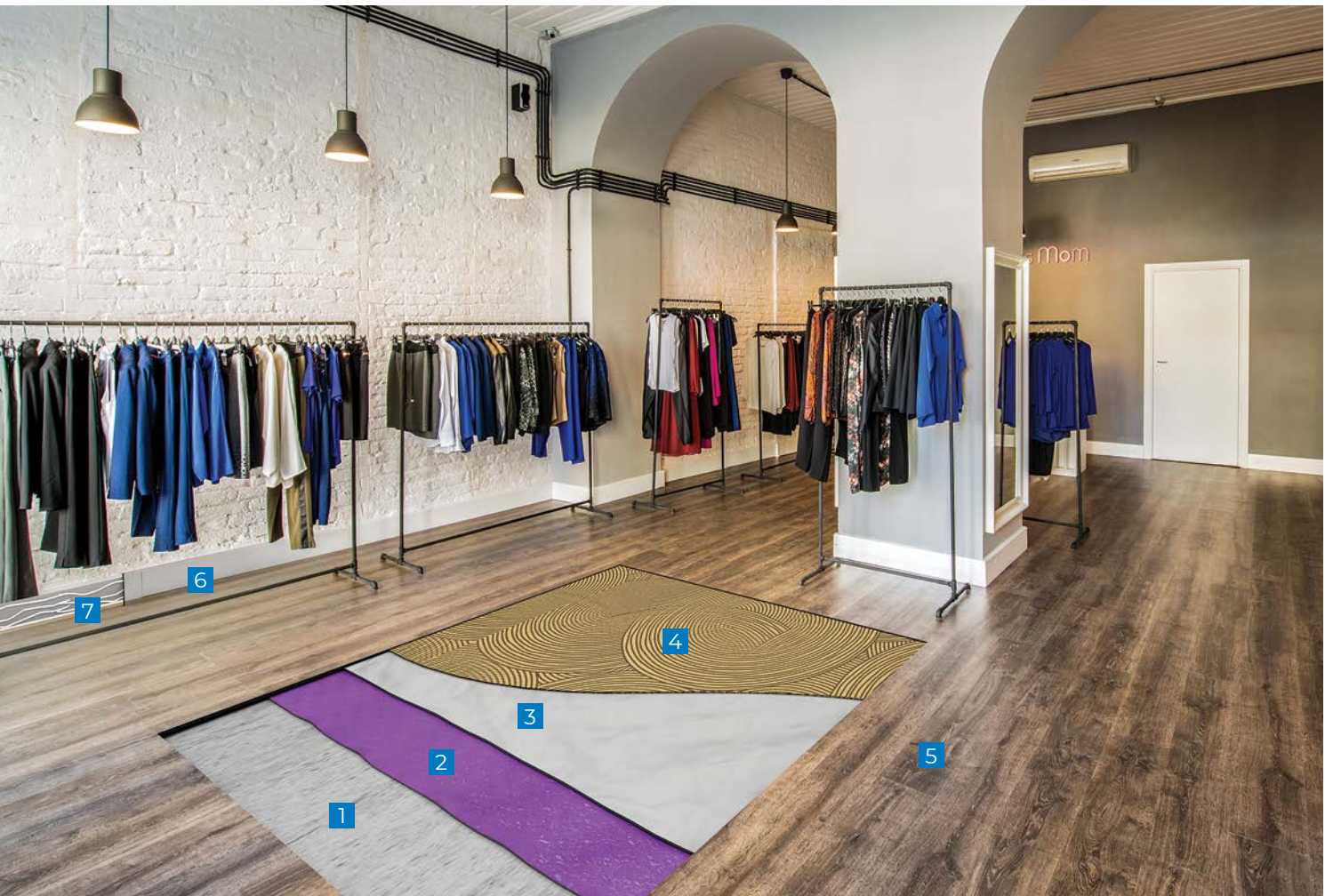
Luxury vinyl tile (LVT) and luxury vinyl plank (LVP) are increasingly being found in retail settings as retailers search for a high-end look to set them apart from the competition. MAPEI's installation products maximize the chances for a successful installation over a variety of substrates.

Issue: Dimensional stability of vinyl planks and tiles

Solutions: *Ultrabond ECO 360* and *Ultrabond ECO 373*, which provide superior "hold" for these products

- 1 Concrete
- 2 *Primer T™*
- 3 *Ultraplan® 1 Plus*
- 4 *Ultrabond ECO® 360* or *Ultrabond ECO 373*
- 5 Luxury vinyl plank
- 6 Cove base
- 7 *Ultrabond ECO 575*

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



INTERIOR

ELEVATOR CAB FLOOR

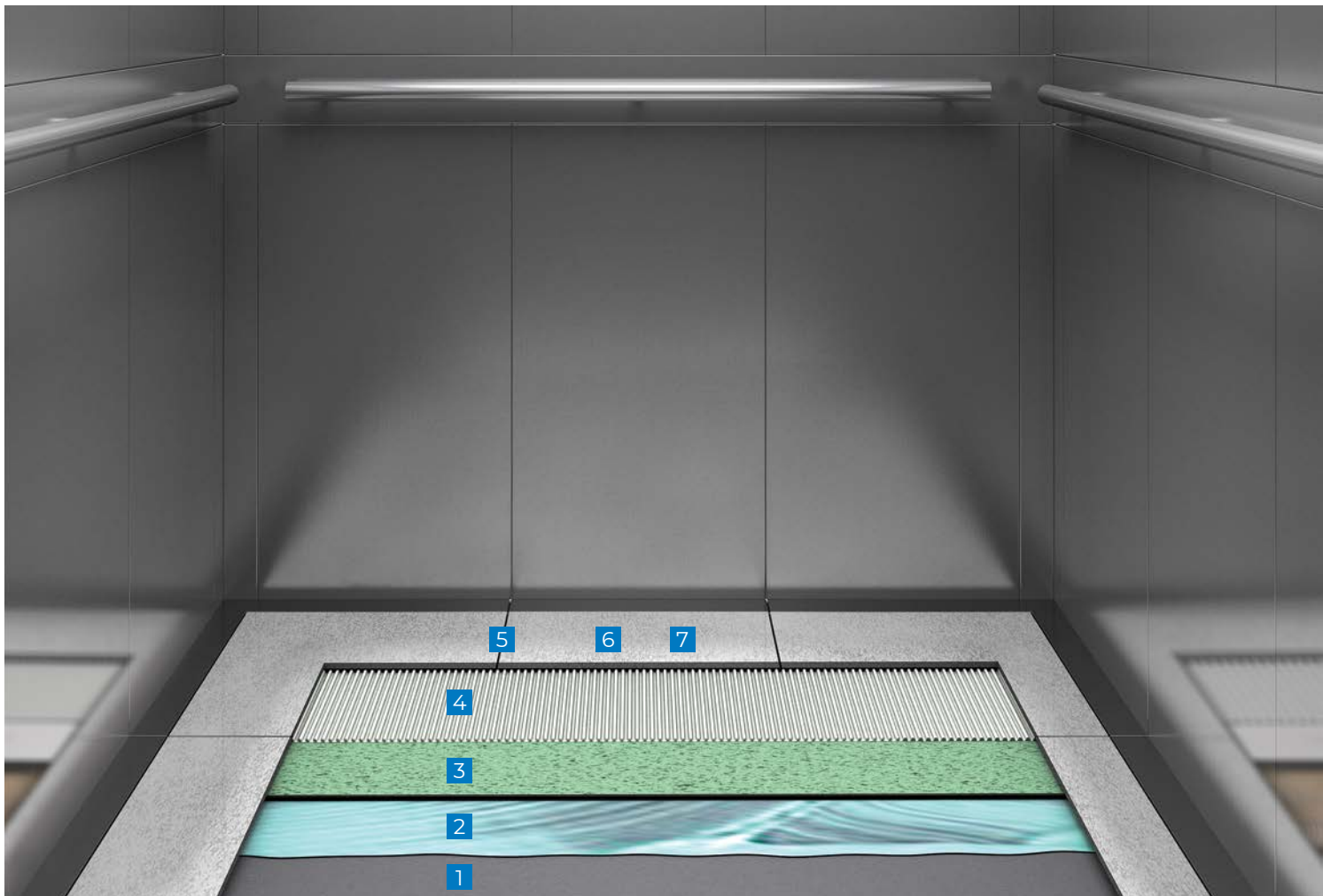
TILE OR STONE OVER STEEL

Often an elevator provides a first impression as customers move from a parking garage to a mall or restaurant. Using beautiful, durable stone or tile in the elevators will enhance the effect of luxury long before one experiences the main event.

Issues: Flexibility; pivot areas; high traffic

Solutions: Materials suitable for substrates that experience deflection. Because there are multiple methods, contact MAPEI's Technical Services Department for guidance.

- 1 Steel
- 2 MAPEI HM Primer™
- 3 Mapeguard® CI
- 4 Ultraflex™ LFT™
- 5 Tile or stone
- 6 MAPEI Flexcolor® CQ
- 7 UltraCare™ Penetrating Plus SB Stone & Porcelain Tile Sealer



INTERIOR

RETAIL SPACES

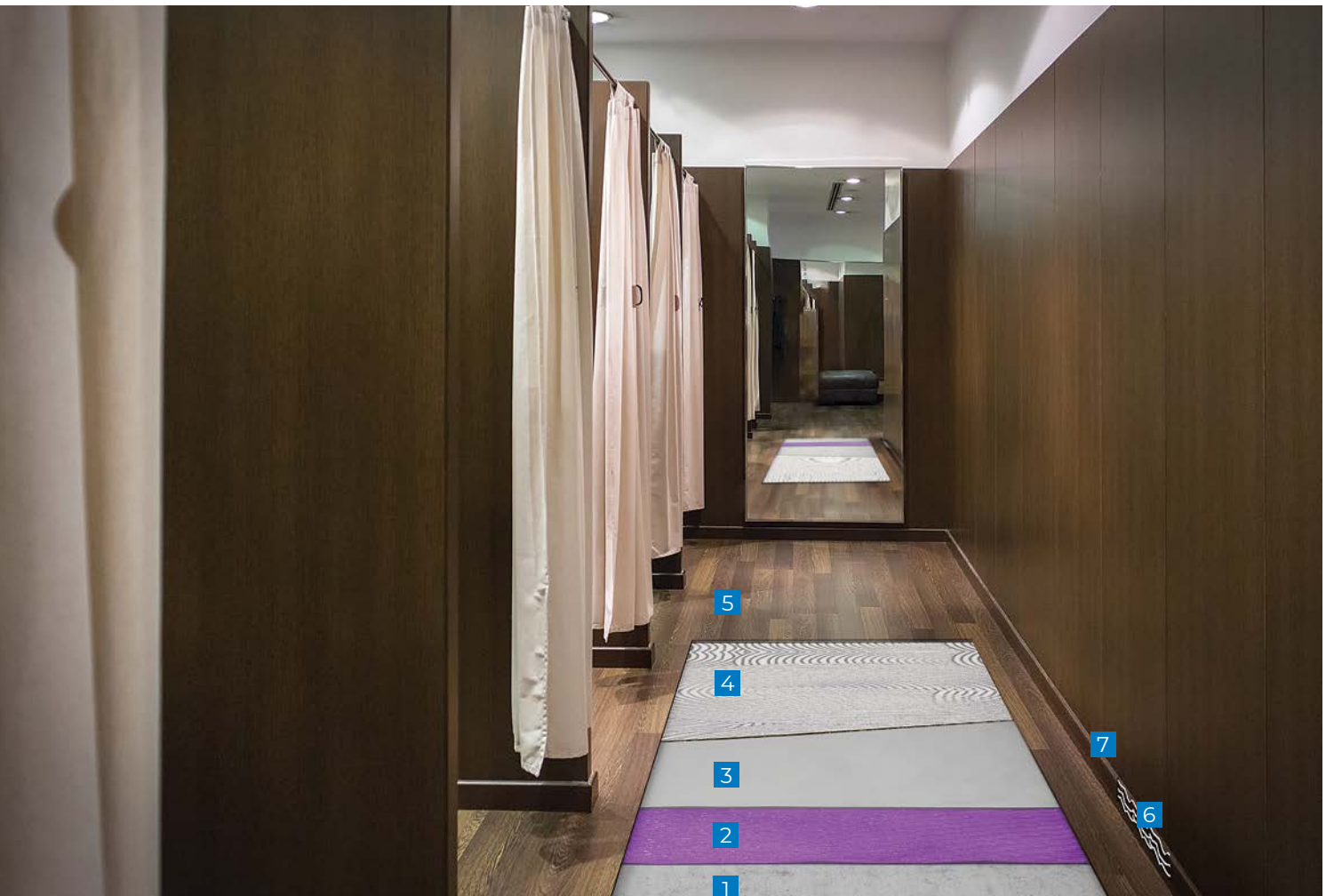
HOMOGENEOUS/
HETEROGENEOUS
SHEET VINYL

Sheet vinyl is often found in retail settings due to the myriad of design choices and the ease of maintenance. Attention to the installation materials selected will minimize issues such as indents and tears that can be associated with heavy traffic and sheet vinyl flooring.

Issue: Shopping carts with wheels that swivel and rock in a small area

Solutions: *Ultrabond ECO 360* resists indentation from heavy rolling loads.

- 1 Concrete
- 2 *Primer T™*
- 3 *Ultraplan® M20 Plus*
- 4 *Ultrabond ECO® 360*
- 5 Sheet vinyl
- 6 Cove base
- 7 *Ultrabond ECO 575*

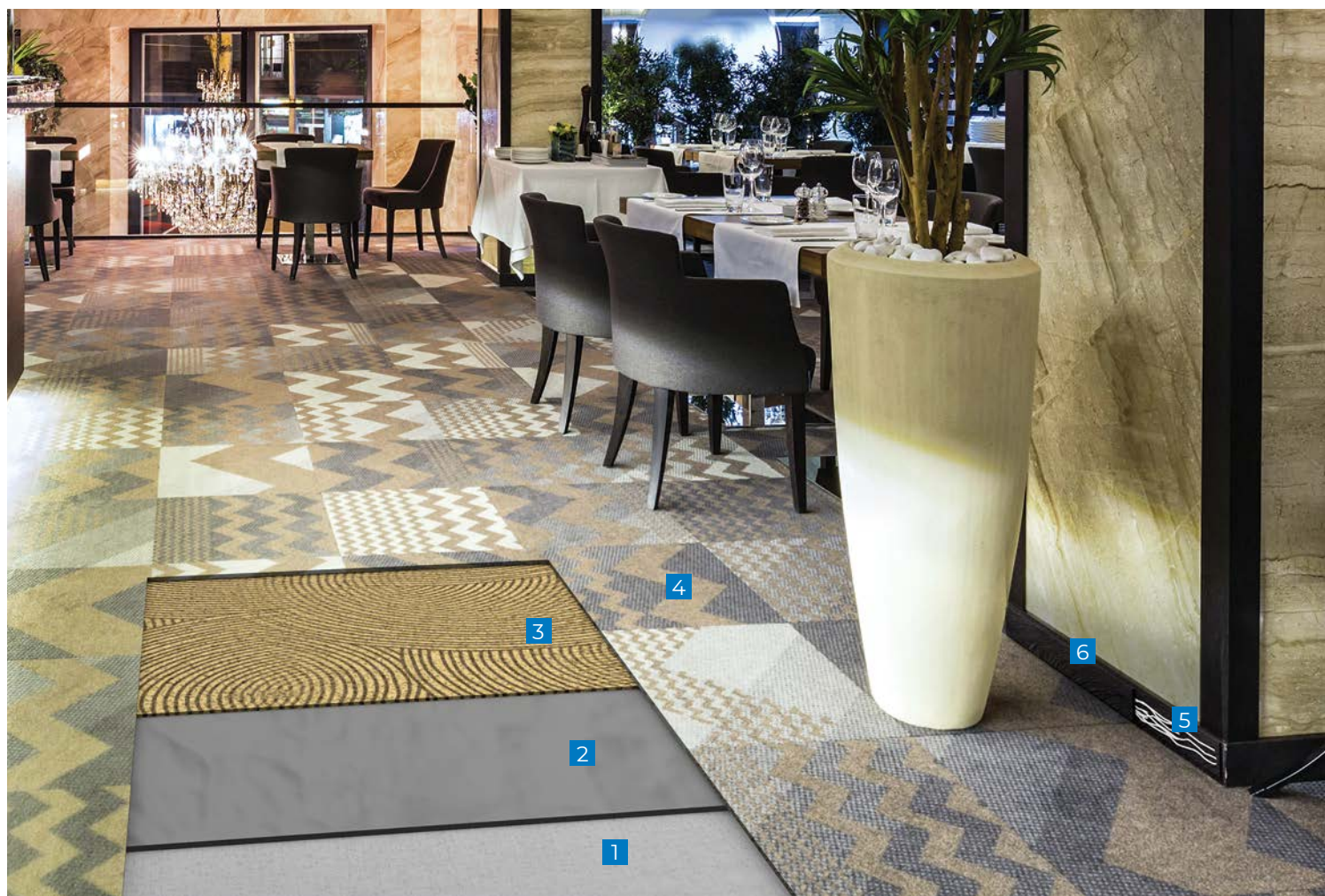


Heavy-traffic areas are where the majority of the traffic will be moving along a set path, time after time. The materials used to flatten and adhere these areas must be designed with a high compressive strength and stay where they are placed, even under heavy traffic conditions.

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

Solution: A high-quality patching product for high-traffic areas

- 1 Concrete
- 2 *Planiprep™ SC* or *Planipatch®*
- 3 *Ultrabond ECO® 285*
- 4 Broadloom carpet
- 5 *Ultrabond ECO 575*
- 6 Vinyl or rubber cove base



INTERIOR

BACK KITCHEN
RESTAURANT /
FOOD COURT

QUARRY TILE

Food preparation areas must be extremely 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 conditions of a commercial kitchen.

Issues: High heat, excessive water, grease, and harsh cleaning chemicals.

Solutions: An industrial-grade, chemical- and heat-resistant grout

- 1 Concrete
- 2 *Mapelastic® AquaDefense*
- 3 *Kerabond/Keralastic™ System* or (for rapid-setting) *Granirapid® System*
- 4 Quarry tile
- 5 *Kerapoxy® IEG CQ*

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

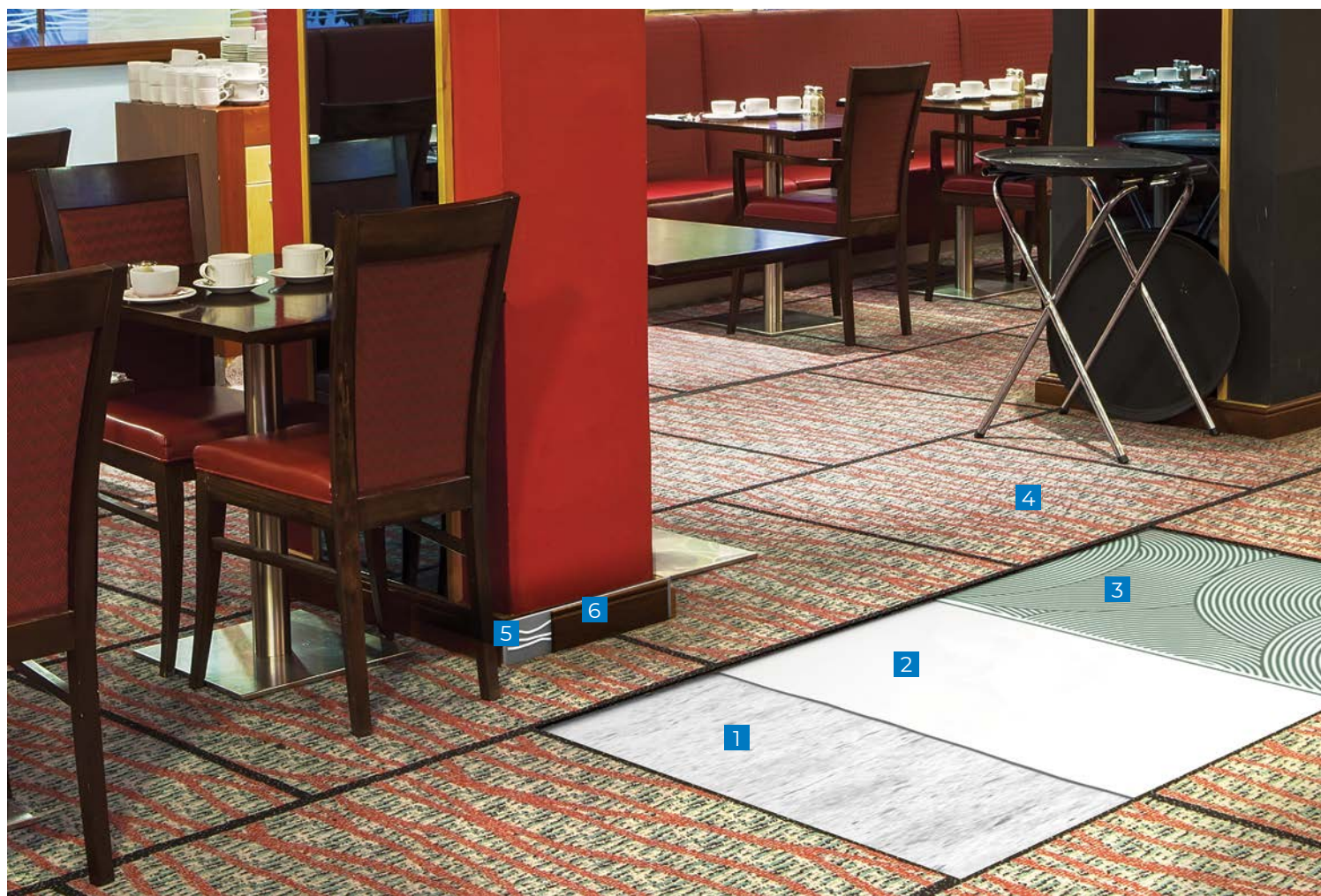


Carpet tiles are another common finish for retail sales areas and cafeteria settings because of the wide range of colors and patterns available that can match the retail environment. However, table and chair legs can test the substrate with point loads, and often there is a time crunch to get these finishes in place quickly. MAPEI products offer time- and stress-reducing options. Plus, our releasable adhesives allow for quick repair of the stained tiles only.

Issues: Point loads requiring high compressive strength; short installation times

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

- 1 Concrete
- 2 *Planiprep™ SC* or *Planipatch®*
- 3 *Ultrabond ECO® 811*
- 4 Carpet tile
- 5 *Ultrabond ECO 575*
- 6 Vinyl or rubber cove base



INTERIOR

RETAIL SPACES /
RESTAURANT
AREAS

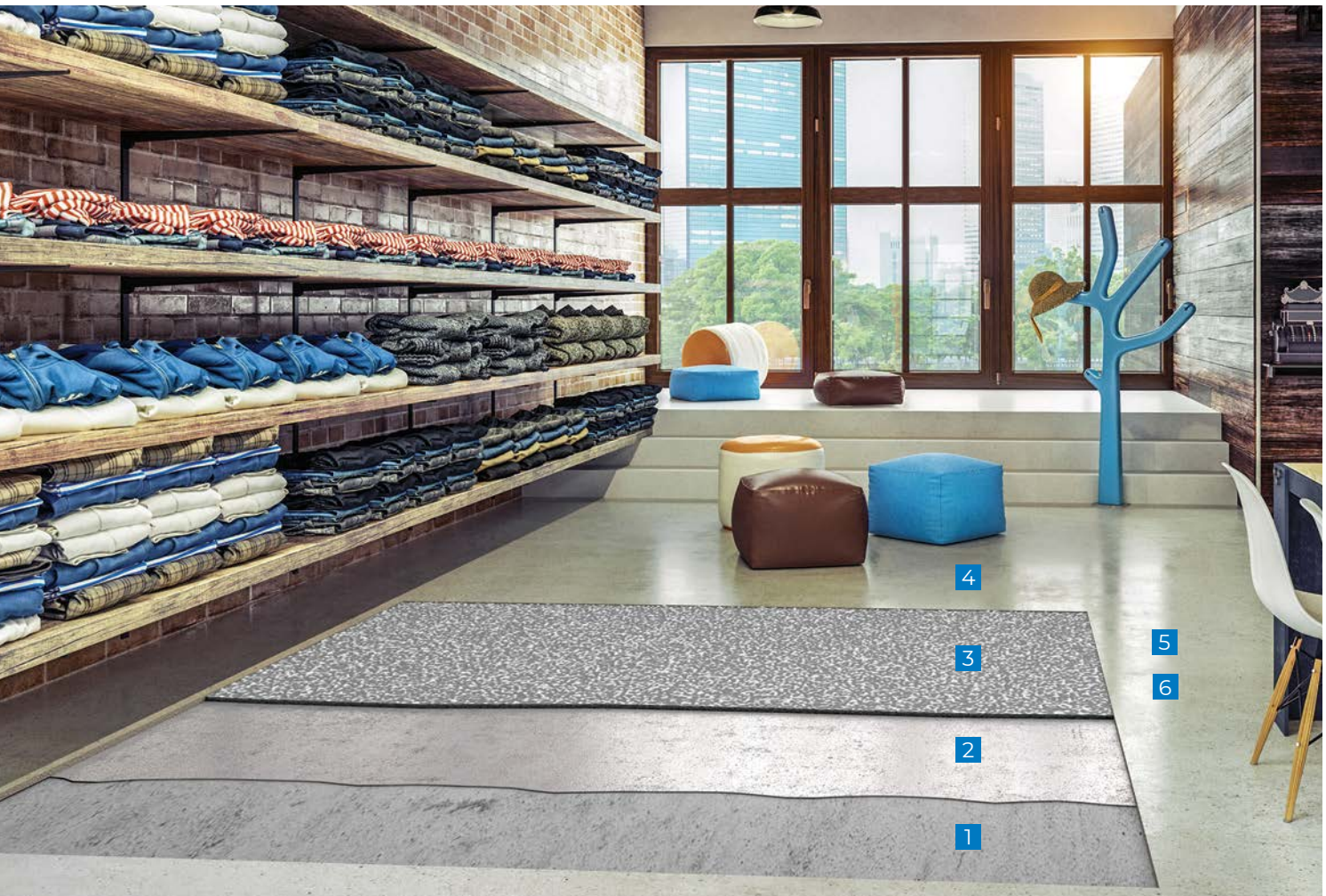
DECORATIVE
CONCRETE

Finished concrete looks are a significant trend for retail spaces. While polishing existing concrete can be an option, existing concrete may not always be up to the task. Products such as *Ultratop PC* provide a fast, effective solution for polished concrete looks over less than perfect substrates.

Issues: Soft, damaged or uneven concrete

Solutions: High-quality, compatible products from a single source for decorative topping

- 1 Concrete subfloor
- 2 *Primer SN™*
- 3 Sand broadcast
- 4 *Ultratop® PC*
- 5 *Mapecrete™ Hard LI*
- 6 *Mapecrete Protector FF*



INTERIOR

WALL/FLOOR
WITH GAUGED
PORCELAIN TILE
PANELS

TILE OVER TILE

Renovations to dated walls and floors can lead to significant downtime. If the change is purely cosmetic and the existing substrate is sound, a tile-over-tile installation with gauged porcelain tiles can be a cost-saving and time-saving alternative. *MAPEI Ultralite S2* thin-tile mortar is the first mortar on the market designed specifically for the challenges of these large tile panels.

Issues: Dated tile or stone; cost of removal

Solution: Tile-over-tile installation with full support of gauged porcelain tiles.

- 1 Existing tile
- 2 *ECO Prim Grip*™
- 3 *MAPEI Ultralite*™ S2
- 4 Gauged porcelain tile panels
- 5 *MAPEI Flexcolor*® CQ
- 6 *UltraCare*™ Penetrating Plus Stone, Tile and Grout Sealer



INTERIOR

SERVICE AND MAINTENANCE AREAS

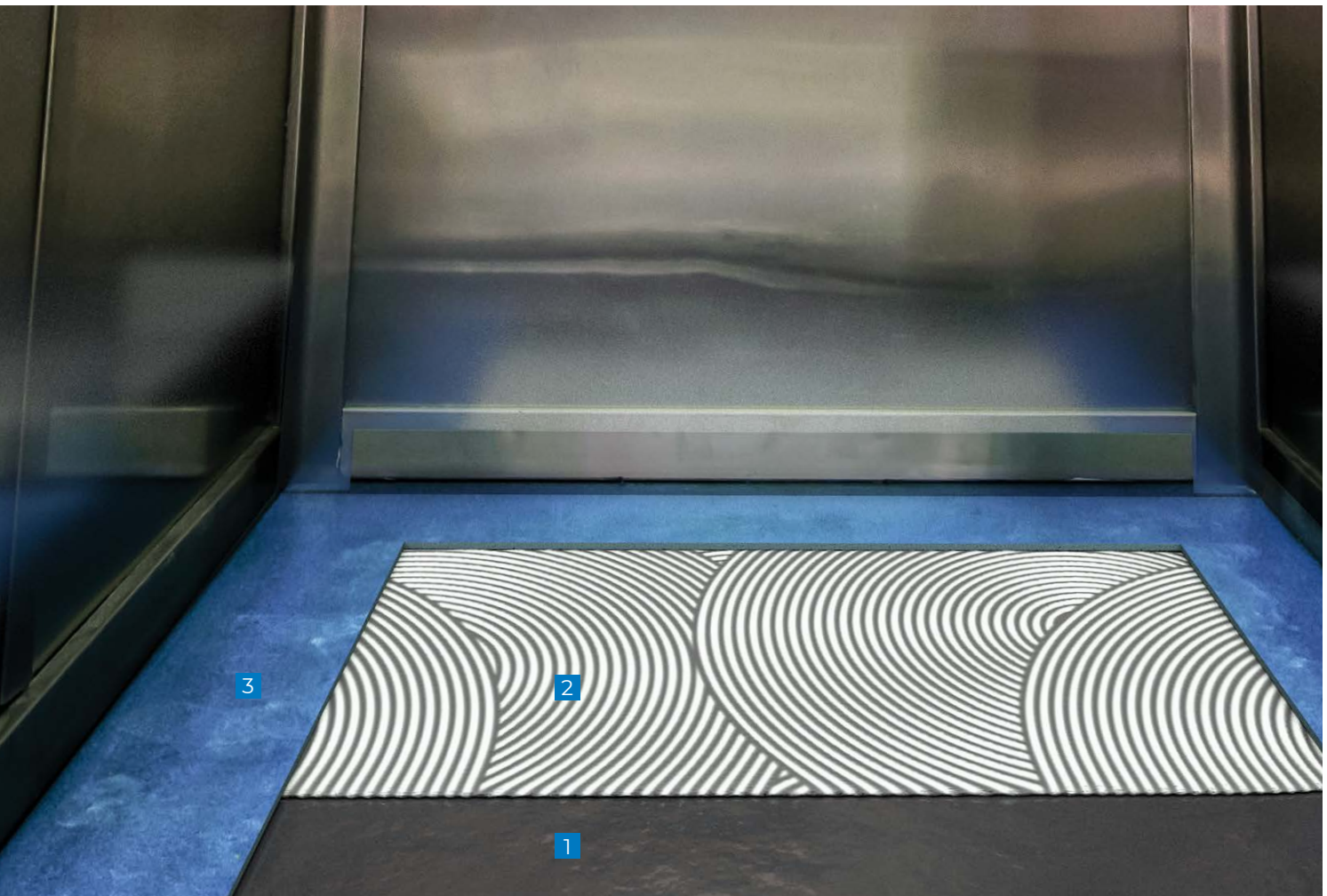
RUBBER OVER STEEL

Transporting merchandise, supplies and maintenance materials can cause significant damage to floors. A tough, durable rubber floor requires the same performance in the installation materials.

Issues: Adhering to steel; high traffic

Solution: Adhesive with a durable bond to rubber over steel substrates

- 1 Steel
- 2 *Ultrabond® G21*
- 3 Virgin rubber sheet or tile



INTERIOR

SERVICE AND MAINTENANCE AREAS

VINYL COMPOSITION TILE (VCT)

Maintenance and access areas are often finished with vinyl composition tile as a cost-effective solution to a durable, cleanable floor. VCT benefits from installation products that are as easy to replace as the tiles, which is perfect for MAPEI's *Ultrabond ECO 711*.

Issues: Heavy rolling loads; damage from heavy equipment; traditional "wax and strip" methods of maintenance

Solution: A durable adhesive that still allows for single tile replacement

- 1 Concrete
- 2 *Planiprep™ SC* or *Planipatch®*
- 3 *Ultrabond ECO® 711*
- 4 Vinyl composition tile (VCT)
- 5 *Ultrabond ECO 575*
- 6 Vinyl or rubber cove base



INTERIOR

INTERIOR

HIGH-MOISTURE AREAS

Retail areas are typically built with slab-on-grade techniques that can come with moisture issues. Concrete alone is not enough to stop water from pushing up under the flooring. MAPEI's epoxy moisture barriers can save the day... and the floor.

Issues: Controlling moisture coming up through the slab that will affect moisture sensitive finishes. Self-leveling underlayment for substrates out of industry tolerance.

Solutions: Moisture barriers with a moisture-resistant self-leveling underlayment

- 1 Concrete (CSP of #2 to #3)
- 2 *Planiseal® VS* or *Planiseal VS Fast*
- 3 *Primer X™*
- 4 *Ultraplan® Extreme 2*
- 5 *Ultrabond® G21*
- 6 Moisture-sensitive flooring



INTERIOR

INTERIOR, FAST-TRACK INSTALLATIONS ON GREEN CONCRETE

HIGH-MOISTURE
AREAS

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 barriers are just the thing. As an added benefit, the moisture barrier also keeps the concrete from drying out too quickly.

Issues: Fast-track installations over green concrete

Solutions: *Planiseal VS* or *Planiseal VS Fast*

- 1 Concrete
(with a CSP of #2 to #3)
- 2 *Planiseal® VS*
(or *Planiseal VS Fast*)
- 3 *Primer X™*
- 4 *Ultraplan® LSC*
- 5 Appropriate adhesive based on
the flooring type
- 6 Moisture-sensitive flooring



PRODUCT GLOSSARY

BELOW-GRADE WATERPROOFING

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™ 20

High-Strength, High-Flow, Prefabricated Drainage Composite

Mapedrain 20 is a high-strength, three-dimensional drainage composite. It consists of a nonwoven filter fabric bonded to individual dimples of a molded polypropylene core, minimizing fabric intrusion into the drainage channels 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™ 25

High-Strength, High-Flow, Prefabricated Drainage Composite with Protective Film

Mapedrain 25 is a high-strength, three-dimensional drainage composite. It consists of a nonwoven filter fabric bonded to individual dimples of the molded polypropylene core, minimizing fabric intrusion into the drainage channels 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 which might clog the core. *Mapedrain 25* also has a polymeric protective film on the back side to provide additional protection to waterproofing membranes.

Mapedrain™ 30

High-Strength, High-Flow, Prefabricated Drainage Composite with Woven Filter Fabric

Mapedrain 30 is a high-strength, three-dimensional drainage composite. It consists of a woven filter fabric bonded to individual dimples of a molded polypropylene core, minimizing fabric intrusion into the drainage channels 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 30's* woven, monofilament fabric withstands high abrasion from applied overburden and prevents intrusion into the drainage core due to its low elongation characteristics. As such, the woven fabric is better suited to receive direct poured concrete than nonwoven geotextile fabrics.

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.

Maeproof™ Granules

Sodium Bentonite Granules

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

Maeproof™ HW

Bentonite Geotextile Sheet Waterproofing Membrane

Maeproof 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 1.13 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 clay in place. After backfill is placed and confined under pressure, *Maeproof HW* hydrates and forms a monolithic waterproofing membrane when exposed to moisture. *Maeproof HW* 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 *Maeproof HW* can seal small concrete cracks caused by ground settlement, concrete shrinkage or seismic action. *Maeproof HW* also forms a strong mechanical

bond to concrete when the concrete is poured onto the nonwoven geotextile fibers.

Mapeproof™ Sealant

Detailing Sealant for Mapeproof HW and Mapeproof SW

Mapeproof 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 *Mapeproof HW* and *Mapeproof SW* waterproofing membranes. When *Mapeproof Sealant* comes into contact with moisture, it swells to seal against water intrusion. *Mapeproof Sealant* is easily applied and bonds to most substrates. When used with *Mapeproof HW* or *Mapeproof SW*, *Mapeproof Sealant* forms a seamless waterproofing system.

Mapeproof™ SW

Bentonite Geotextile Sheet Waterproofing Membrane for Salt/Contaminated Groundwater

Mapeproof 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, *Mapeproof SW* hydrates and forms a monolithic waterproofing membrane when exposed to moisture. The proprietary blend of sodium bentonite and polymer enables *Mapeproof SW* to form this monolithic waterproofing membrane when exposed to salt and other contaminants.

Mapeproof 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 *Mapeproof SW* can seal small concrete cracks caused by ground settlement, concrete shrinkage or seismic action. *Mapeproof SW* also forms a strong mechanical bond to concrete when the concrete is poured onto the nonwoven geotextile fibers.

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.

CONCRETE RESTORATION SYSTEMS

Elastocolor® Coat

Water-Based, High-Build, 100%-Acrylic, Waterproof Coating

Elastocolor Coat is a water-based, high-build, 100%-acrylic coating designed to protect and decorate above-grade, exterior/interior vertical concrete, masonry, stucco, fiber-reinforced polymer (FRP) composites and EIFS systems. *Elastocolor Coat* is available in two textures (smooth and fine), in a wide range of standard colors and in an unlimited number of custom colors to increase its design versatility.

Elastocolor® Primer AR

Water-Based, Alkali-Resistant Primer for Elastocolor Coatings

Elastocolor Primer AR is a specially designed primer for use on exterior, above-grade, new and previously coated concrete and masonry surfaces. *Elastocolor Primer AR* will protect subsequent coatings from the damaging effects of high pH present in freshly placed cement-based products. It remains highly flexible, offers excellent filling and adhesion on prepared substrates, and is designed for compatibility with MAPEI's *Elastocolor* coating systems.

Mapecem® Quickpatch

High-Performance Concrete Patch

Mapecem Quickpatch is a high-performance, fast-setting, cementitious material used for the patching of concrete surfaces.

Mapecrete™ Hard LI

Lithium Silicate Densifier and Sealer for Concrete

Mapecrete Hard LI is a water-based, VOC-free, lithium silicate solution used to densify, seal and dustproof horizontal, hard-troweled concrete surfaces. It penetrates the concrete surface, chemically reacts with the free lime and produces a dense, hard matrix within the concrete and a more durable surface on top.

Mapecrete™ Protector FF

High-Gloss, Film-Forming Protective Coating for Concrete

Mapecrete Protector FF is a film-forming, high-gloss protective coating designed to increase the stain resistance of interior, polished or hard-troweled concrete floors.

Mapeflex™ P2 NS

Two-Component, Non-Sag, Polyurethane Sealant

Mapeflex P2 NS is a two-component, non-sag, polyurethane sealant that meets the requirements of ASTM C920.

Mapeflex™ PU40

Non-Sag, Polyurethane Sealant with a Low Modulus of Elasticity

Mapeflex PU40 is a one-component, non-sag, elastomeric polyurethane sealant.

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 450

Two-Component, Aliphatic, Polyurethane Topcoat

Mapefloor Finish 450 is a two-component, solvent-free, aliphatic, polyurethane topcoat specifically designed to provide a protective wear coat for elevated concrete surfaces in areas that are exposed to direct sunlight.

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.

Mapefloor™ PU Primer

Two-Component Polyurethane Primer

Mapefloor PU Primer is a two-component, polyurethane-based primer that can be used for initial application of *Mapefloor* parking deck systems or as a recoat primer for already installed polyurethane deck systems.

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.

Planitop® 12 SR

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

Planitop 12 SR is a sulfate-resistant, one-component, shrinkage-compensated, cementitious repair mortar. *Planitop 12 SR* is fiber-reinforced, contains both silica fume and a corrosion inhibitor, and is intended for the repair of vertical, overhead and horizontal concrete surfaces.

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.

Primer SN™

Two-Component, Filler, Epoxy Primer

Primer SN is a two-component, filled, epoxy primer specifically designed to enhance adhesion of cement-based decorative and multilayer flooring, such as MAPEI's *Mapefloor™* products, *Ultratop®* products, *PlaniLevel™* products and *Planitop EL*.

Ultratop® PC

High-Performance, Polishable Concrete Topping

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

FLOOR COVERING INSTALLATION SYSTEMS

Planiprep™ SC

High-Performance, Fiber-Reinforced Skimcoating Compound

Planiprep SC is a high-performance, polymer-modified, fiber-reinforced, 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.

Ultrabond ECO® 285

Premium, Wet-Set Carpet Adhesive

Ultrabond ECO 285 is a high-performance, latex-based adhesive designed specifically for the fast-track installation of broadloom carpet. Its unique 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 demanding carpet installations in high-traffic conditions.

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 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® 373

Universal, Pressure-Sensitive, Multi-Flooring Adhesive

Ultrabond ECO 373 is a super aggressive, pressure-sensitive adhesive that is designed for the installation of a wide variety of resilient flooring types. *Ultrabond ECO 373* has been specifically formulated to provide extended working time and can be applied using a trowel or roller, depending on the level of tack that is required for the flooring that is being installed.

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® 811

Universal Carpet Tile Adhesive

Ultrabond ECO 811 provides an enhanced, aggressive tack for installing all types of carpet tile. *Ultrabond ECO 811* provides a secure, releasable adhesive base for standard PVC-backed carpet tile as well as for non-PVC-, polyolefin-, felt- and bituminous-backed carpet tile. It can also be used to bond fiberglass-reinforced vinyl sheet flooring.

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® 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.

Primer T™

All-Purpose Primer for Self-Leveling Underlayments

Primer T is a low-VOC, magenta-colored, water-based acrylic primer that enhances the performance and adhesion of self-leveling underlayments (SLUs) on nonporous and porous substrates. Suitable for a wide variety of substrates, *Primer T* combines excellent versatility with easy, low-odor application.

Primer X™

Fast-Drying, Textured Primer for Nonporous Substrates

Primer X is a fast-drying, high-performance, low-VOC, water-based, acrylic primer. It is textured to enhance the performance and adhesion of self-leveling underlayments over 100%-solids, epoxy moisture barriers and other nonporous substrates.

Ultraplan® 1 Plus

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

Ultraplan 1 Plus is a 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® 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 a calcium-aluminate-based, quick-setting, self-leveling underlayment and topping. 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. *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.

TILE & STONE INSTALLATION SYSTEMS

ECO Prim Grip™

Multipurpose, Bond-Promoting Primer

ECO Prim Grip is a ready-to-use, low-VOC, synthetic resin-based primer with bond-promoting silica aggregates suspended in a dispersion. It enhances the performance and adhesion of mortars to existing ceramics and difficult-to-bond-to substrates. Plus, it improves bonding of self-leveling underlayments (SLUs) and bonds of render coats over cementitious substrates. Suitable for a wide variety of substrates, *ECO Prim Grip* combines excellent versatility with an easy, low-odor application.

Granirapid® System

Premium, Rapid-Setting, Flexible Tile Mortar

Granirapid is the industry's first and most flexible, high-performance, fast-curing mortar system geared for fast-track projects. It develops high, early mechanical strength and can be specified for the most demanding tile applications. Thanks to MAPEI's High-Hydrated

Cement Technology (HCT™), *Granirapid* offers superior drying-out characteristics for quick curing and does not contribute to efflorescence. When installed in conjunction with *Ultracolor® Plus FA* grout, *Granirapid* will allow water submersion in only 72 hours.

Kerabond/Keralastic™ System

Premium, 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.

Keraflex™ Super

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

Keraflex Super is a highly versatile, non-sag/nonslump, large-and-heavy-tile mortar and thin-set mortar for tile and stone for installations on floors, walls and countertops. This polymer-modified mortar has a high content of a unique dry polymer, resulting in excellent adhesion to the substrate and tile, with enhanced resistance to freeze/thaw environments. It is formulated with Easy Glide Technology™ for ease of application and with a consistency that allows adjustability when used with lippage control systems. *Keraflex Super* can also be used as a mortar over uncoupling, crack-isolation, sound-reduction and waterproofing membranes.

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 non-sagging/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, non-sagging, 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.

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.

Mapeguard® CI

Peel-and-Stick, Crack-Isolation Sheet Membrane for Tile Installations

Mapeguard CI is a flexible, thin (1/16" or 1.5 mm), lightweight, load-bearing, fabric-reinforced, “peel-and-stick” crack-isolation membrane. After application, ceramic tile or stone can be installed immediately with approved polymer-modified cement-based mortar. *Mapeguard CI* helps to prevent existing or future in-plane floor cracks (with movement up to 3/8" or 10 mm wide) from transmitting through grout, ceramic tile or natural stone.

MAPEI Flexcolor® CQ

Ready-to-Use Grout with Color-Coated Quartz

MAPEI Flexcolor CQ is a professional-grade, ready-to-use specialty grout for precision commercial and residential installations with porcelain, ceramic and natural-stone tiles. *MAPEI Flexcolor CQ* can be used to grout interior/exterior tile, and its nonporous composition helps to prevent water-based stains by providing water repellency to the grout surface. *MAPEI Flexcolor CQ* is formulated with the latest innovation in quartz aggregate, which ensures color consistency, ease of cleanability and improved workability. In addition, this grout can be used on sensitive tile surfaces once tested, requires no sealer and cures naturally from evaporation of the low level of water in the formulation.

Comparison testing of *MAPEI Flexcolor CQ* versus traditional Portland-cement grout has verified that *MAPEI Flexcolor CQ* is 30% more cost-efficient (based on typical rates of installers) and requires 65% less time to install.

MAPEI HM Primer™

Water-Based, Interior/Exterior Primer for Sheet Membranes
MAPEI SM Primer is a ready-to-use, low-VOC, water-based, quick-drying, high-tack membrane primer. It is specifically formulated to promote maximum adhesion of MAPEI peel-and-stick sheet membranes to high-moisture substrates.

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, Gauged-Tile Mortar with Polymer

MAPEI Ultralite S2 is a premium-grade, lightweight, single-component thin-set mortar that is ideal for installation of gauged (formerly “thin”) porcelain tile. 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 and superior transfer properties to enhance back-buttering, and can be used also for ceramic tile and stone. *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® 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® 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. *Mapelastick AquaDefense* dries after about 30 to 50 minutes and is then ready to receive any MAPEI polymer or epoxy mortar. *Mapelastick 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.

Mapelastick® Turbo

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

Mapelastick Turbo is a two-component, rapid-drying, cementitious-binder-based membrane with fine-grained selected aggregates, special admixtures and synthetic polymers in water dispersion for interior and exterior installations under ceramic tile or stone in residential, commercial and industrial intermittent wet or submerged environments. Applied easily with a roller or brush, *Mapelastick Turbo* provides an excellent barrier to protect adjacent rooms and floors below from water damage. *Mapelastick Turbo* exceeds ANSI A118.10 and ANSI A118.12 standards and is compatible with polymer-modified cement-based mortars (ANSI A118.4 or better) or epoxy mortars (ANSI A118.3).

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.

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.

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 pre-consumer recycled content and meets the ANSI A138.1 specification for Green Squared certification.

Ultraflex™ LFT™

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

Ultraflex LFT is a premium, non-sag, large-and-heavy-tile 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.

UltraCare™ Penetrating Plus SB Stone & Porcelain Tile Sealer

UltraCare Penetrating Plus SB Stone & Porcelain Tile Sealer is a premium, natural-look, solvent-based penetrating sealer that uses VOC-exempt materials and will provide maximum protection against most common stains for all interior and exterior natural stone (marble, limestone, sandstone, slate, granite, travertine, etc.), unglazed porcelain and ceramic tiles, masonry, quarry tiles and cement grout. The product can also be used as a pre-grouting sealer.

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, masonry and cement grout. The product can also be used as a pre-grouting sealer.





PROJECT SOLUTIONS GUIDE:

RETAIL AND RESTAURANTS

PR: 8387 MKT: 17-1649 02/21



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1-800-361-9309 (Canada)

Customer Service

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

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

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