

SYSTEM SOLUTIONS GUIDE

# RESIDENTIAL HIGH- RISES





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## Residential high-rise construction is in demand, and each project brings specific challenges. MAPEI has solutions to these important challenges:

### Fast track

Residential high-rise 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 specified. MAPEI's team can guide you in selecting installation products to ensure that the products work with your schedule.

### Sound control

To appease the most demanding condominium boards and stringent building codes, MAPEI has developed a portfolio of innovative sound solutions to control ambient noise transmission and impact sound transfer. Best of all, MAPEI sound-reduction membranes have been designed to work with our adhesives, mortars and levelers to provide a total solution to multi-family sound challenges.

### Longevity

Builders of residential high-rise buildings cannot afford downtime. MAPEI is there from the first stages of construction, protecting against water intrusion with our below-grade waterproofing products. Our high-performance self-leveling underlayments and adhesives ensure that the floors are up to the task, preparing them for the final finishes. We back our products with our industry-leading Best-Backed<sup>SM</sup> warranties, ensuring that we will stand behind the products installed long after the general contractor has handed over the keys to the building.

### Health

Owners and occupants expect residential settings to be comforting, not irritating from exposure to harsh chemicals. MAPEI's “Green Innovation” products are formulated from the ground up to offer sustainable solutions for healthy settings. Many of our products have third-party certifications such as Green Label Plus and Green Squared. Most of our adhesives are designed with low VOCs in mind. The MAPEI team can help when designing to meet the requirements of any of the popular sustainable building programs.

### Beauty

Today's residential settings rival hotels and resorts. Common areas are bright and open, and feature high-end finishes. MAPEI's experience in working with the major floor and wall coverings on the market today helps to ensure that installations are as trouble-free as they are beautiful. 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.

### Sustainability

There is a growing demand for sustainable designs for high-rise buildings. A building's “atmosphere or carbon footprint” is impacted by site location. The design challenge is to work with the site location and products selected to optimize water efficiency, energy efficiency and indoor environmental quality (IEQ).

This trend toward sustainability has also led to an evolution in systems and techniques. MAPEI has formulated its products – including adhesives, binders, admixtures, ready-mixed screed mortars, primers, consolidators and waterproofing products – to provide building materials that are sustainable and transparent. Believing that true sustainability requires a balance between performance and transparency, MAPEI provides products that are solvent-free with a very low content of volatile organic compounds (VOCs), keeping in mind the health and well-being of installers as well as occupants.

To quickly identify MAPEI products that can contribute to sustainable programs, look for the Green Innovation logo on product packaging and printed materials. For specific green product certifications and documentation, contact MAPEI's Technical Services Sustainability Team at 1-800-992-6273.

This brochure is an introduction to typical systems found in residential high-rise settings and the MAPEI products that can 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

 **FLOOR COVERING** INSTALLATION SYSTEMS

 PRODUCTS FOR **SPORTS FLOORING**

 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 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:

- 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

In North America, MAPEI facilities have been certified to ISO 9001 and ISO 14001 quality 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.

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.

### 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: 81 production facilities in 35 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.



## 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<sup>SM</sup> 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).



# EX TER IOR

## BELOW-GRADE WATERPROOFING

### BLINDSIDE CONSTRUCTION

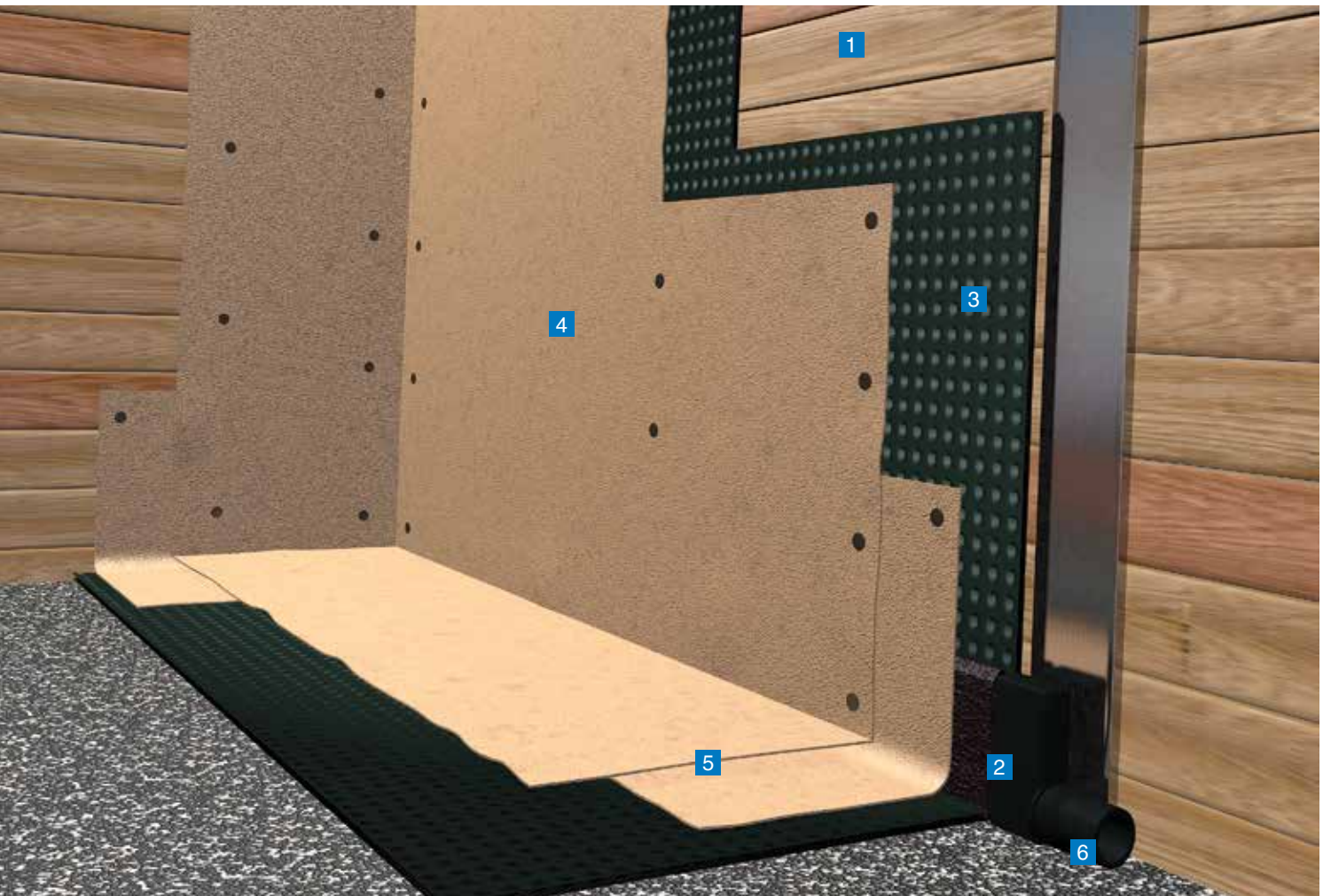
Blindside waterproofing is often utilized when building in urban or congested areas where retention walls must be utilized due to property line constraints, adjacent structures or roadways.

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.

**Challenges:** 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

- 1 Wood lagging
- 2 *Mapedrain TD Drainage Composite*
- 3 *Mapedrain 25*
- 4 *Mapeproof HW* (or *Mapeproof SW*)
- 5 *Mapeproof Granules*
- 6 *Mapedrain TD Fittings* (end outlet)







# EXTERIOR

## EXTERIOR VENEER

CERAMIC OR STONE TILE

Tile or stone on the outside of a building can give a classic feel or make the building a contemporary masterpiece. It also can provide energy savings, heat reflectance or absorption, as well as ease of maintenance. Properly installed tile and stone veneers can potentially last for the life of the building.

**Challenges:** Rain, freeze/thaw, shrinkage and expansion

**Solutions:** Installation materials that do not contribute to efflorescence, highly deformable freeze/thaw-resistant setting materials, soft expansion joints

- 1 Concrete
- 2 **Planitop 330 Fast**
- 3 **Mapelastic AquaDefense**
- 4 **Granirapid System**
- 5 Ceramic or stone tile
- 6 **Ultracolor Plus FA**
- 7 **Mapesil T**
- 8 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**



# EXTERIOR

## BALCONY FLOOR

CERAMIC OR  
STONE TILE

- 1 Concrete
- 2 **Mapebond 700, Mapebond 710** or **Mapebond 720**
- 3 **Mapethene HT** or **Mapethene LT**
- 4 **Mapedrain 30** or **Mapedrain 50**
- 5 **Modified Mortar Bed**
- 6 **Mapelastic 315** with **Fiberglass Mesh** or **Mapelastic AquaDefense**
- 7 **Kerabond T / Keralastic System, Kerabond/Keralastic System** or **Granirapid System**
- 8 Ceramic or stone tile
- 9 **Ultracolor Plus FA** or **MAPEI Flexcolor CQ**
- 10 **Mapesil T**
- 11 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**

Balconies can be quite challenging environments, for tile or stone installations over occupied or unoccupied space. It is key to have a primary waterproofing system rated for the application. MAPEI offers a system solution from the substrate up with our *Mapethene* waterproofing system topped with freeze/thaw-stable mortars and high-performance, efflorescence-resistant grouts. Best of all, this system qualifies for MAPEI's Best-Backed system warranty, giving architects peace of mind when specifying MAPEI products.

**Challenges:** Weather, salts, efflorescence

**Solutions:** Freeze/thaw- and submersion-resistant mortars, efflorescence-resistant grouts, expansion joints and the *Mapethene* waterproofing system



# EX TER IOR

## BUILDING FACADE

PROTECTIVE  
COATING

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.

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

**Solutions:** *Elastocolor Primer WB* and *Elastocolor Coat* are formulated as a system to waterproof, seal, protect and beautify.

- 1 *Mapeshield I*
- 2 *Planitop XS* or *Planitop 12 SR*
- 3 *Mapeflex P1*
- 4 *Elastocolor Primer WB*
- 5 *Elastocolor Coat*



# EXTERIOR

## VALET/ TRANSPORTATION AREA

CERAMIC OR  
STONE TILE

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

Valet and transportation areas are every potential resident's first impression of the building and some of the most challenging to tile. Vehicular traffic means heavy rolling loads and turning wheels. Ice removal in cold climates adds the challenge of salts, caustics and other chemicals. Make sure that your products are up to the challenge by using MAPEI's system of problem-solvers for exterior applications.

**Challenges:** Vehicular traffic, weather, salts, efflorescence

**Solutions:** Freeze/thaw-stable mortars, durable grouts, expansion joints and installation materials that do not contribute to efflorescence



# EXTERIOR

## ROOF DECK

CERAMIC OR  
STONE TILE

Roof decks can be quite challenging environments, which make them perfect for tile or stone installations. They are buffeted by weather and likely have to be both a walking surface and the roof over occupied space below. It is key to have a primary waterproofing system rated for the application. MAPEI offers a system solution from the substrate up with our *Mapethene* waterproofing system topped with freeze/thaw-stable mortars and high-performance, efflorescence-resistant grouts. Best of all, this system may qualify for MAPEI's Best-Backed system warranty, giving architects peace of mind when specifying MAPEI products.

**Challenges:** Weather, salts, efflorescence

**Solutions:** Freeze/thaw- and submersion-resistant mortars, efflorescence-resistant grouts, expansion joints and the *Mapethene* waterproofing system

- 1 **Mapebond 700, Mapebond 710 or Mapebond 720**
- 2 **Mapethene HT or Mapethene LT**
- 3 **Mapedrain 30 or Mapedrain 50**
- 4 **Modified Mortar Bed**
- 5 **Mapelastc 315 or Mapelastc AquaDefense**
- 6 **Kerabond T / Keralastic System, Kerabond/Keralastic System or Granirapid System**
- 7 Ceramic or stone tile
- 8 **Ultracolor Plus FA**
- 9 **Mapesil T**
- 10 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**



# EXTERIOR

## PARKING DECK

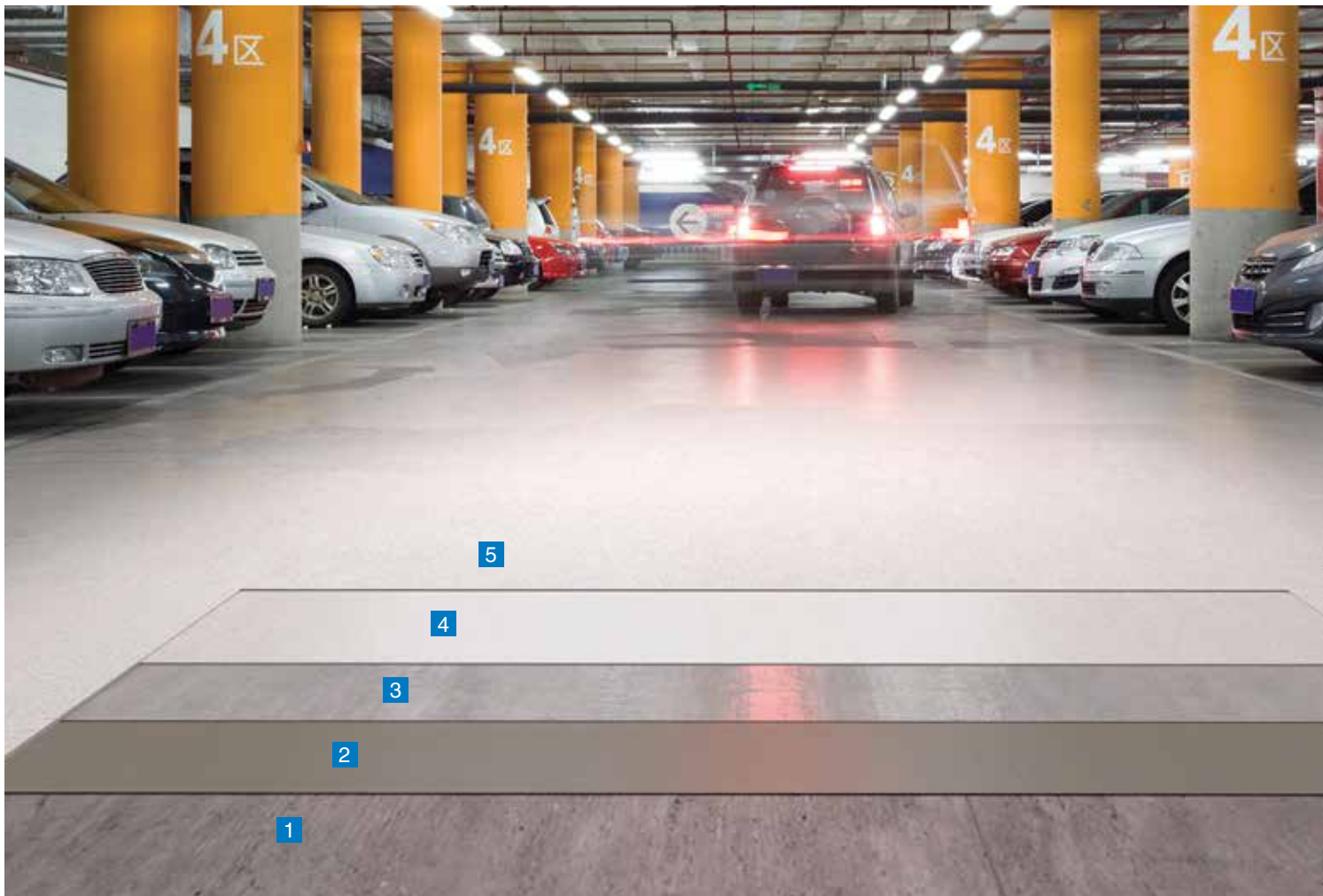
SYSTEM FOR  
HEAVY-DUTY  
VEHICULAR TRAFFIC

- 1 Existing concrete
- 2 **Primer SN**
- 3 **Mapefloor PU 400 LV**
- 4 **Mapefloor Finish 450**  
with sand broadcast (back-rolled)
- 5 **Mapefloor Finish 450**  
with sand broadcast (back-rolled)

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.

**Challenges:** Rolling-wheel traffic and low-speed turns

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



# EX TER IOR

## POOL DECK

### PORCELAIN TILE

Modern pool decks include design elements that bring a unique feeling of restfulness and relaxation. Designers must create an oasis while still ensuring that the waterproofing is sufficient to contain the water.

**Challenges:** Pool chemicals; water migration; maintenance

**Solutions:** High-performing, flexible mortars and chemical-resistant grouts

- 1 Concrete
- 2 **Modified Mortar Bed** with slurry coat
- 3 **Mapelastic 315** with **Fiberglass Mesh**
- 4 **Kerabond T / Keralastic System**
- 5 Porcelain tile
- 6 **Kerapoxy CQ**
- 7 **Mapesil T**





# EXTERIOR

## POOL

### GLASS TILE

- 1 Concrete
- 2 **Planitop 330 Fast**
- 3 **Mapelastc 315** with **Fiberglass Mesh**
- 4 **Granirapid System** or **Adesilex P10** mixed with **Keraply**
- 5 Pool tile
- 6 **Keracolor U** or **Ultracolor Plus FA**
- 7 **Mapesil T**

Pool tile is often glass, in many sizes that can be used for accent strips, as step markers or even to cover the entire pool. Trim tiles are used on infinity edges and more.

**Challenges:** Water migration, pool chemicals, efflorescence

**Solution:** Versatile, high-performance tile setting products that allow water submersion and do not contribute efflorescence



# INTERIOR

## LOBBY AND HALLWAY FLOORS

### DOUBLE-STICK BROADLOOM CARPET

Double-stick carpet is a mainstay for areas with high foot traffic, such as hallways and lobbies. MAPEI's products provide a level substrate and adhesives for installing pads and carpets. Depending on the adhesive, the pad can be permanent or releasable, easing the frequent remodeling challenges typical in residential high-rise settings.

**Challenges:** Aesthetics; durability; odor; frequent updating

**Solutions:** High-quality, low-VOC adhesive; single-source products; a complete system from self-leveling to sound control

- 1 Concrete
- 2 *Primer T*
- 3 *Ultraplan LSC*
- 4 Pad to substrate: *Ultrabond ECO 811* (releasable); or *Ultrabond ECO 185* (or *Ultrabond ECO 220* or *Ultrabond ECO 285*) (nonreleasable)
- 5 Carpet pad
- 6 *Ultrabond ECO 185* (or *Ultrabond ECO 220* or *Ultrabond ECO 285*)
- 7 Carpet
- 8 *Ultrabond ECO 575*
- 9 Wall base



# INTERIOR

## RETAIL SPACE FLOOR

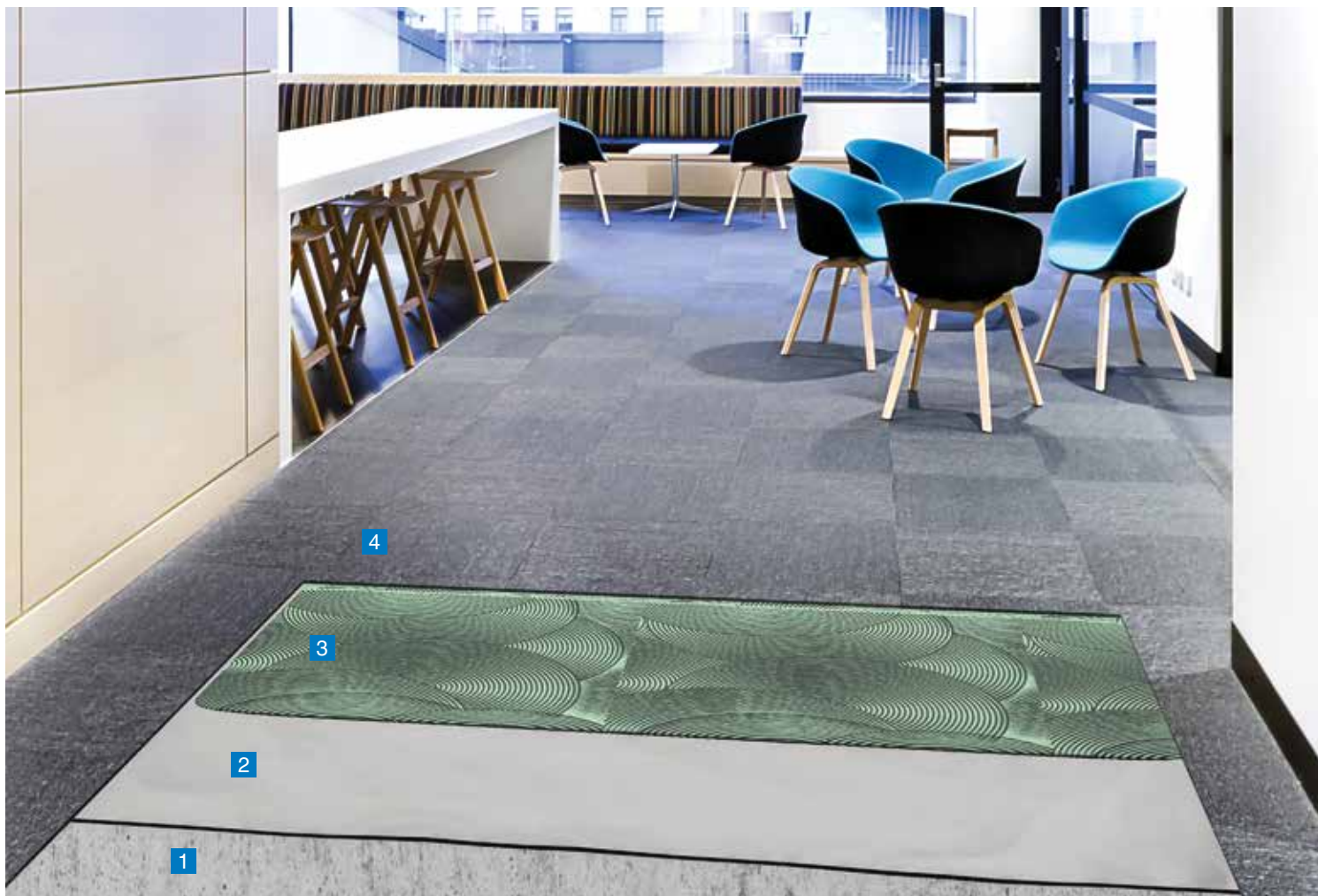
### CARPET TILE

- 1 Concrete
- 2 *Planiprep SC*
- 3 *Ultrabond ECO 811*
- 4 Carpet tile with PVC (vinyl), non-PVC, polyolefin, felt or bitumen backing

Carpet tile is a popular floor covering for first-floor areas such as computer rooms in addition to gift, sandwich and coffee shops. Damaged areas of flooring can be replaced without changing the entire installation.

**Challenges:** Aesthetics; durability; low VOCs; frequent updating

**Solution:** High-quality, releasable adhesive; single-source system of products



# INTERIOR

## SNACK BAR

STAINED AND/OR  
SEALED CEMENT-BASED  
TOPPING

Concrete flooring is a trendy choice, but not all existing substrates are up to the task of being attractive and durable. Enter *Ultratop*, MAPEI's fast-track solution for creating a beautiful floor. Natural gray *Ultratop* is also available in white, which allows the floor to be your canvas for a variety of coloring options. Plus, there is a version that can be polished.

**Challenges:** Need for an aesthetic and functional upgrade of existing substrates, especially in high-traffic areas

**Solution:** *Ultratop* is specifically designed to create attractive floors that offer more than 6,000 psi (41.4 MPa) of compressive strength when fully cured.

- 1 Concrete
- 2 *Planibond EBA*
- 3 Sand broadcast with *Mapesand Fine*
- 4 *Ultratop*
- 5 *Mapecrete Protector FF*



# INTERIOR

## LIVING SPACE FLOOR

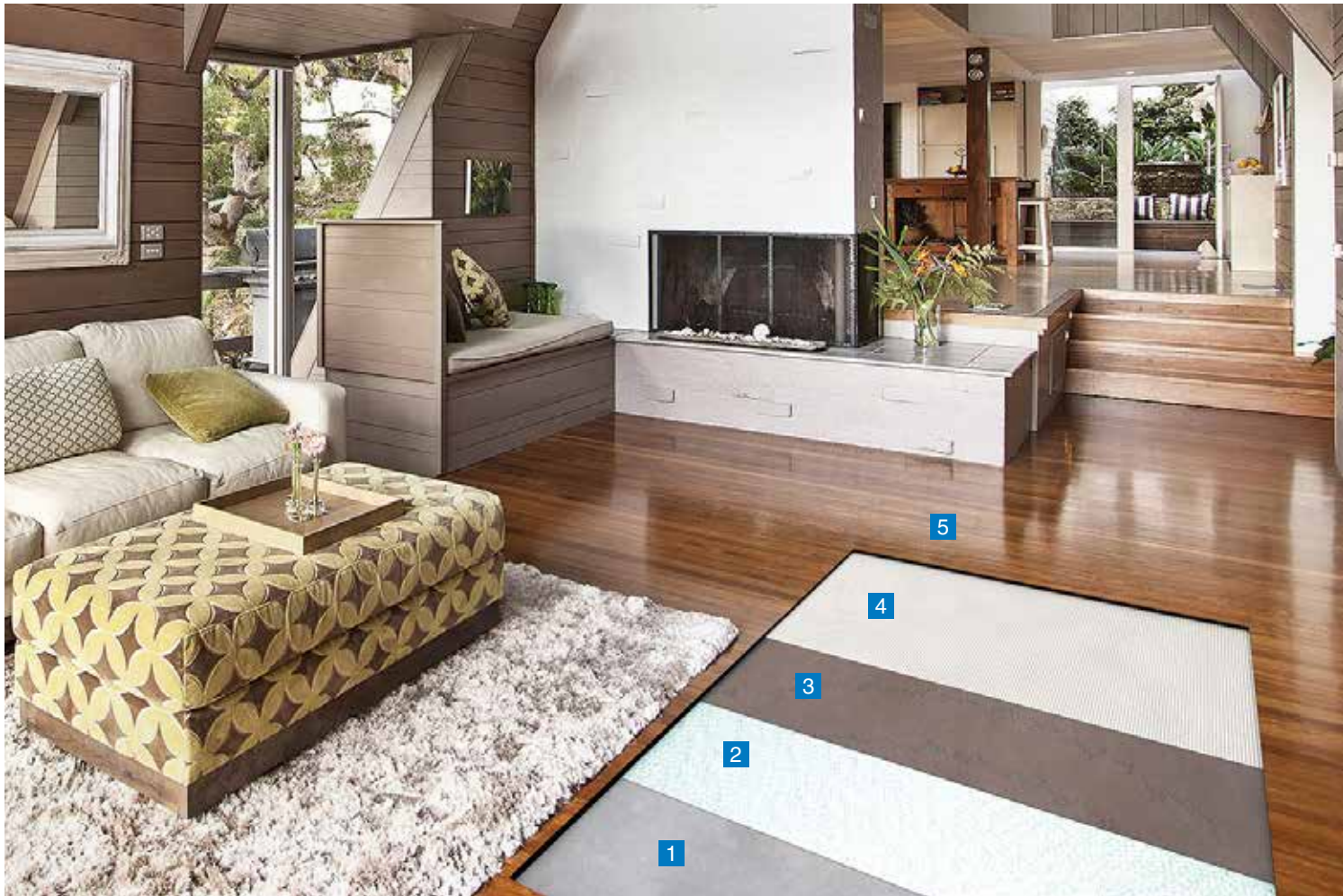
WOOD FLOORING WITH SOUND REDUCTION OVER CONCRETE

- 1 Concrete
- 2 *Primer T*
- 3 *Ultraplan Extreme 2*
- 4 *Ultrabond ECO 985*
- 5 Bamboo flooring, engineered wood flooring or solid wood flooring

Wood can now be considered in many areas, and the choice of how to incorporate it with confidence is easier than ever. From the surface preparation to the finished flooring, MAPEI has it covered.

**Challenges:** Aesthetics; noise transfer; low VOCs; moisture from new concrete

**Solution:** Moisture-resistant, self-leveling underlayment combined with moisture-controlling adhesive that helps with sound reduction



# INTERIOR

## LIVING SPACE FLOOR

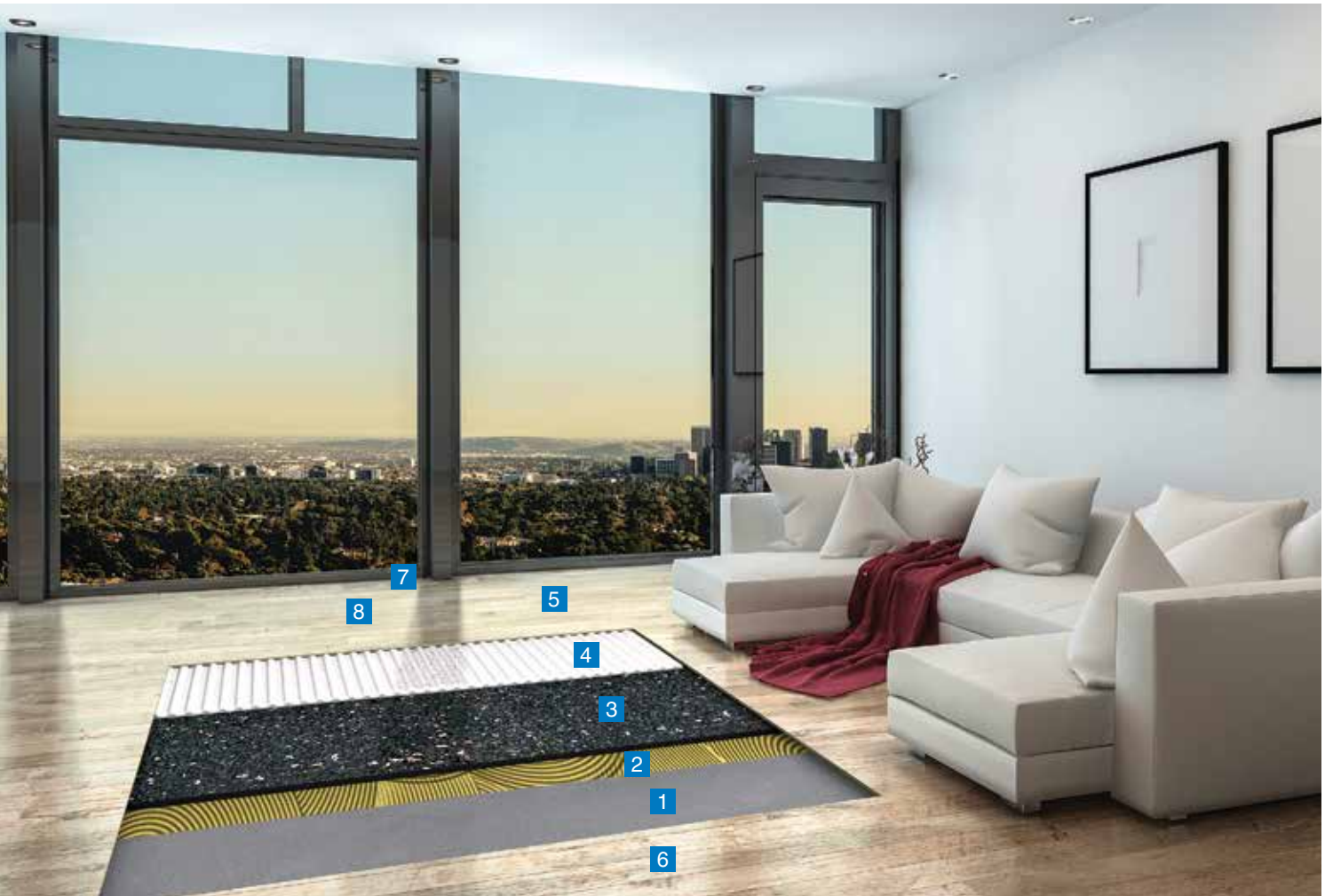
WOOD-LOOK TILE AND SOUNDPROOFING OVER CONCRETE

Living areas must combine beauty, durability and utility. A multitude of surface coverings are available to obtain this level of performance and aesthetics, including tile that looks like wood. Wood-look tile is available in natural wood-grain patterns and many colors to look as if they are stained, aged or white-washed. Porcelain and ceramic plank tiles range from narrow to large-format.

**Challenges:** Aesthetics; durability; efflorescence; sound control

**Solutions:** A complete system of self-leveling (if needed), sound-reduction product, large-format-tile mortar and efflorescence-free grout

- 1 Concrete
- 2 **Ultrabond ECO 420**
- 3 **Mapesonic RM 5**
- 4 **Ultraflex LFT Rapid**
- 5 Wood-look porcelain tile
- 6 **Ultracolor Plus FA**
- 7 **Mapesil T**
- 8 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**



# INTERIOR

## LIVING SPACE FLOOR

### LUXURY VINYL PLANK AND SOUNDPROOFING

- 1 Concrete
- 2 **Planiprep SC**
- 3 **MAPEI SM Primer**
- 4 **Mapesonic 2**
- 5 **Ultrabond ECO 360** (or **Ultrabond ECO 373**)
- 6 LVP
- 7 **Ultrabond ECO 575**
- 8 Vinyl or rubber cove base

Luxury vinyl plank (LVP) and luxury vinyl tiles (LVT) are increasingly used in bedrooms as low-maintenance alternatives to carpet. New flooring closely mimics the appearance of wood, stone and tile. As a bonus, damaged areas can be quickly and inexpensively replaced.

**Challenges:** Noise transfer; ease of maintenance

**Solution:** Smooth skimcoating compounds; membranes for sound control; high-quality adhesives



# INTERIOR

## BEDROOM FLOOR

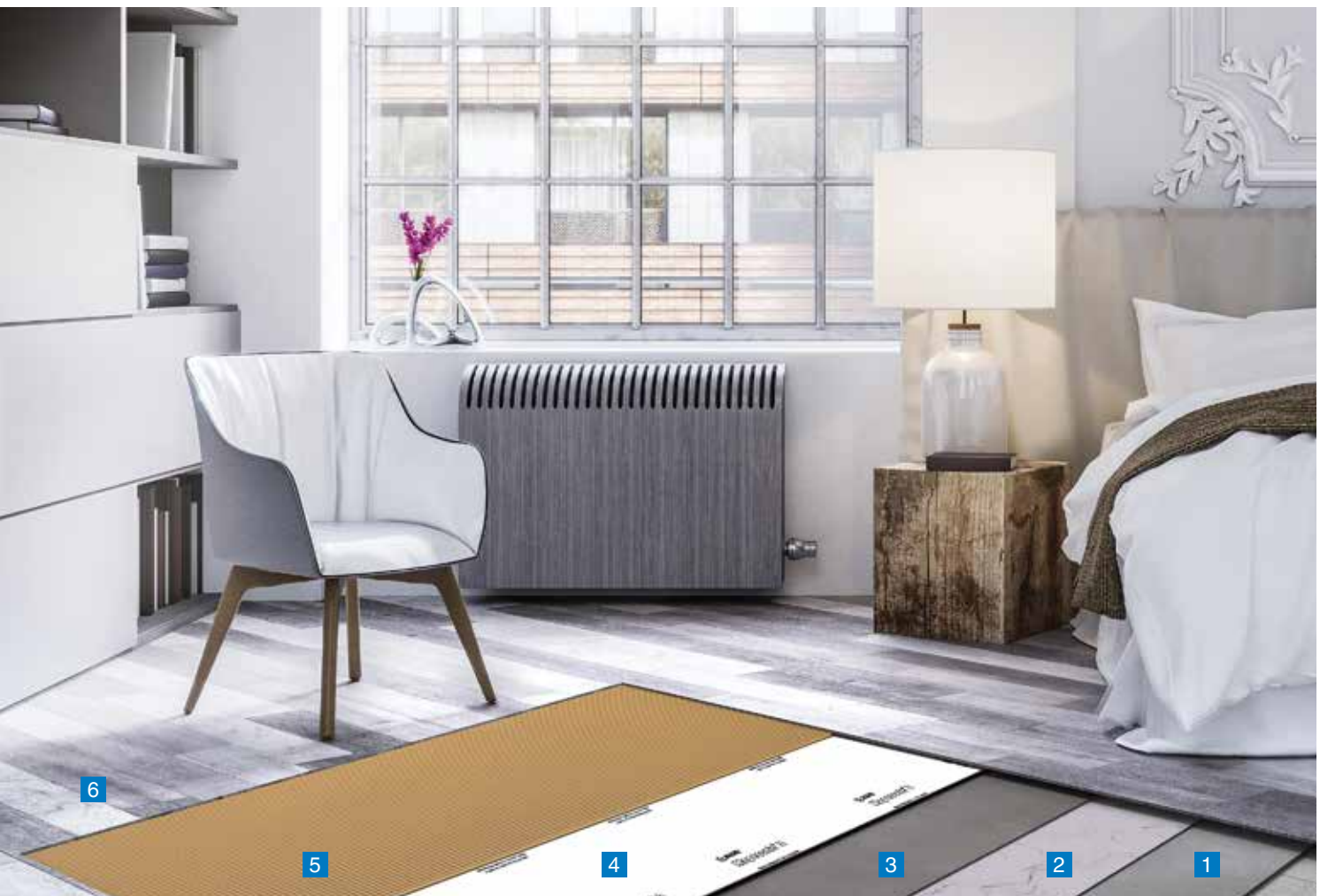
### WOOD FLOORING AND SOUNDPROOFING

Wood flooring provides a high-end appearance and luxurious feeling under foot for upscale spaces. However, it requires a flat substrate and can be sensitive to moisture from above or below. Concerns about volatile organic compounds (VOCs) can be addressed through careful product selection of the wood and adhesives. MAPEI makes low-VOC products to protect wood from moisture and adhere it to the substrate. MAPEI can also offer solutions to cut down on noise transmitted through floors.

**Challenges:** Foot traffic; sound transmission; potential high VOCs

**Solutions:** Sound-control, high-quality adhesive; single-source products; low-VOC products

- 1 Concrete
- 2 **Primer T** with **Ultraplan Easy** (if self-leveling is needed)
- 3 **MAPEI SM Primer**
- 4 **Mapesonic 2**
- 5 **Ultrabond ECO 980**
- 6 Engineered wood flooring or solid wood flooring





# INTERIOR

## BEDROOM FLOOR

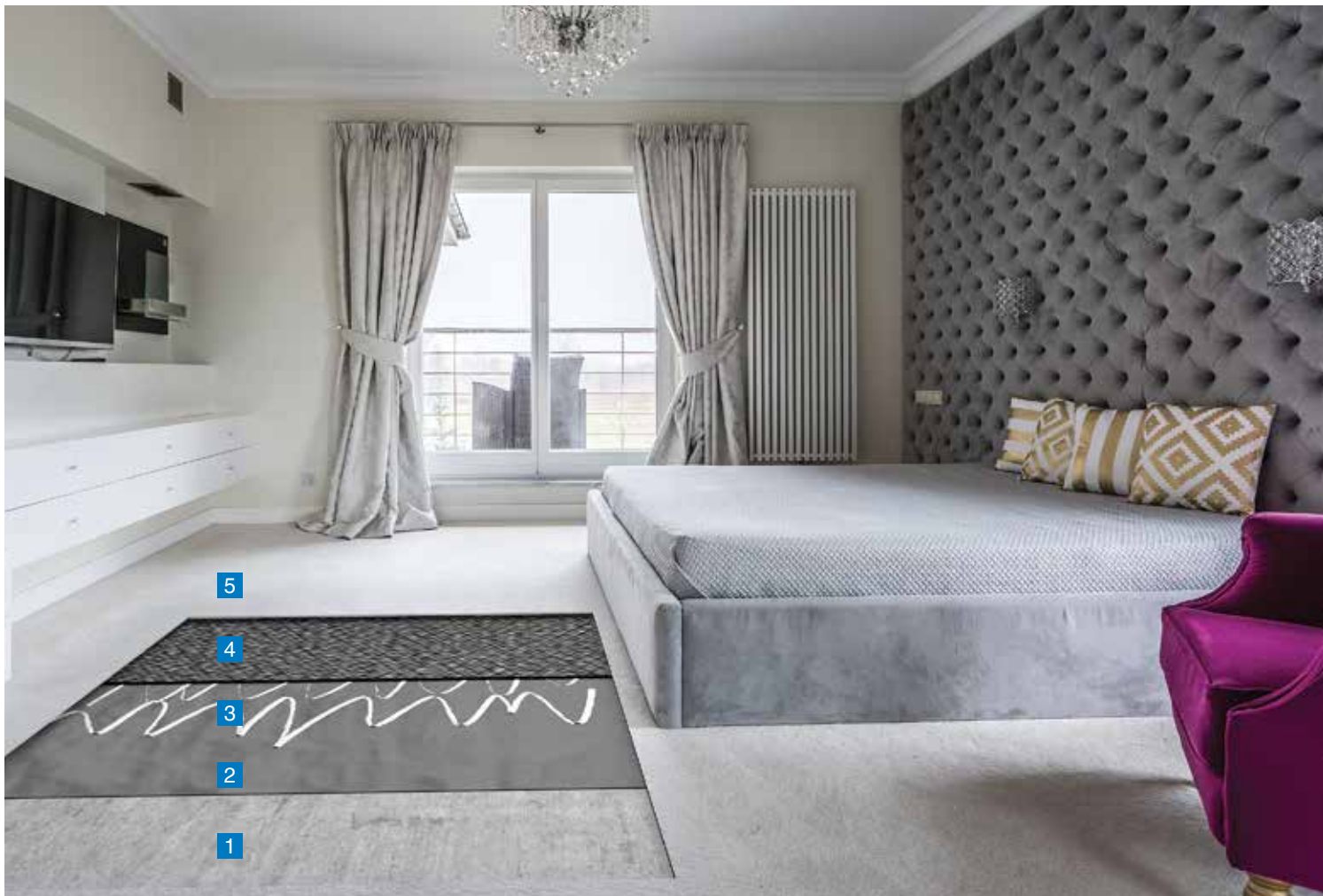
### STRETCH-IN BROADLOOM CARPET

- 1 Concrete
- 2 **Planiprep SC**
- 3 **Ultrabond ECO 3185**  
(for pad-to-substrate bond)
- 4 Carpet pad
- 5 Stretch-in carpet

The warm, snug comfort of a bedroom is enhanced by wall-to-wall carpeting. Bumps, bunching and adhesive odor are eliminated by using a MAPEI system of products to produce a flat floor and secure bond without affecting the health and well-being of the occupants.

**Challenges:** Floor flatness; potential VOCs

**Solution:** A skimcoating compound to smooth irregularities; low-odor, water-based adhesives



# INTERIOR

## KITCHEN WALL

### GLASS TILE BACKSPLASH

Backsplashes provide the opportunity to personalize a kitchen and complement other surfaces. But backsplashes must be durable enough to hold up to ordinary spills, splashes and cleaning routines.

**Challenges:** Discoloration; staining; scratching of glass tile

**Solutions:** White mortar; stain-resistant grout or grout additive that enhances stain and chemical resistance

- 1 Cement board
- 2 **Adesilex P10**
- 3 Glass tile mosaic
- 4 **MAPEI Flexcolor 3D** (or **Keracolor U** mixed with **UltraCare Grout Maximizer**)
- 5 **Mapesil 3D** (or **Mapesil T**)



# INTERIOR

## KITCHEN WALL

MARBLE TILE  
BACKSPLASH

- 1 Gypsum wallboard
- 2 *Primer T*
- 3 *MAPEI Ultralite Mortar* – White
- 4 Marble tile
- 5 *Keracolor U*
- 6 *Mapesil T*
- 7 *UltraCare Penetrating Plus Stone, Tile & Grout Sealer*

Superior materials equal added value. When selecting a fashionable surface such as natural stone, treat it correctly by using a non-scratch grout and a sealer to protect your investment.

**Challenges:** Scratching; staining

**Solutions:** Unsanded grout; tile and grout sealer



# INTERIOR

## BATHROOM FLOOR

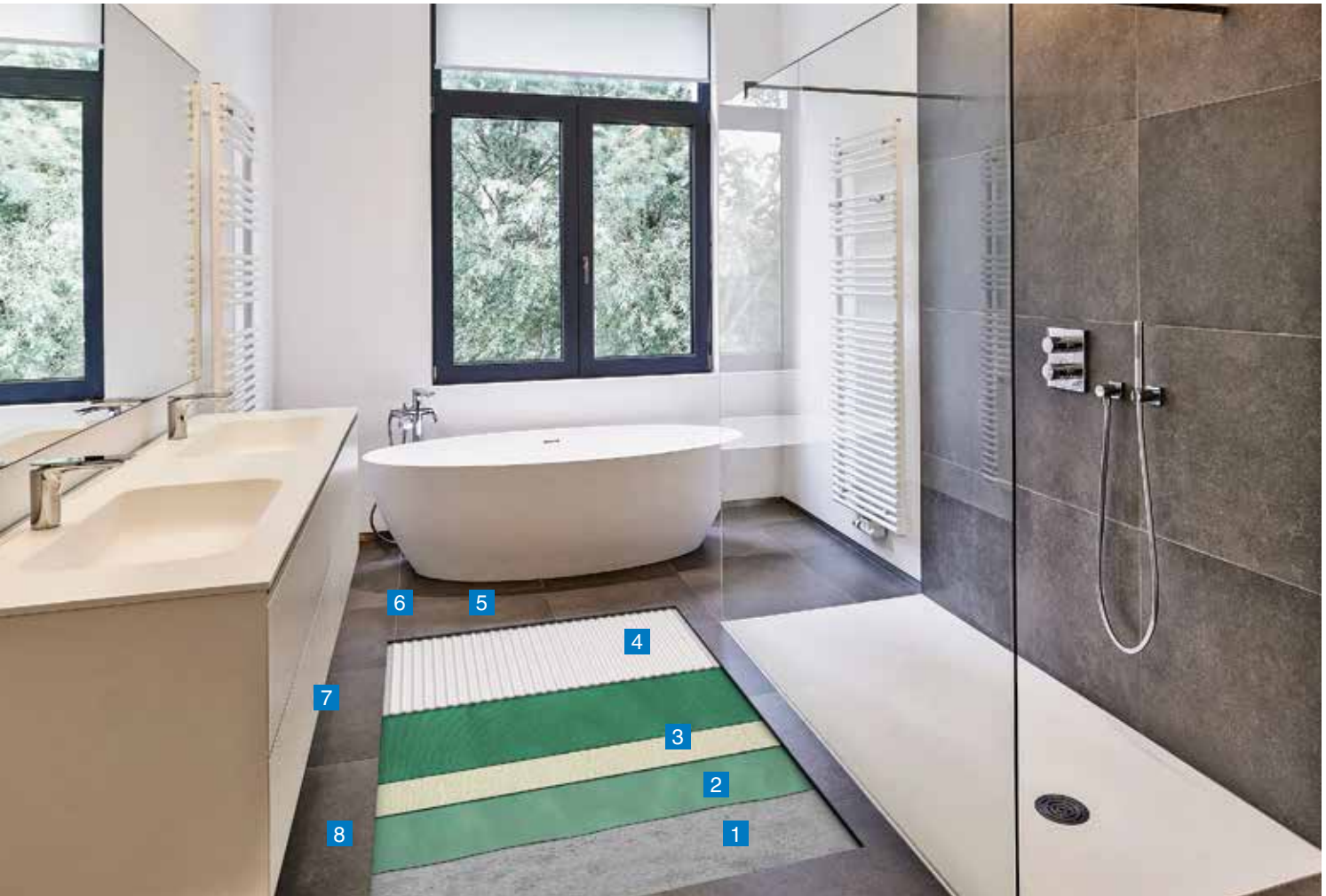
### PORCELAIN TILE AND WATERPROOFING

Porcelain tile is made from natural ingredients and is easy to keep clean. Both attributes are huge benefits for a bathroom floor. When allergies are a concern, turn to tile to steer clear of many of the conditions and contaminants that are found in soft surfaces.

**Challenges:** Moisture; maintenance

**Solutions:** Water-resistance; color consistency; easy to clean

- 1 Concrete
- 2 **Mapelastic AquaDefense**
- 3 **Reinforcing Fabric** (with second coat of **Mapelastic AquaDefense**)
- 4 **Ultraflex LFT**
- 5 Porcelain tile
- 6 **MAPEI Flexcolor CQ**
- 7 **Mapesil T**
- 8 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**



# INTERIOR

## LAUNDRY ROOM FLOOR

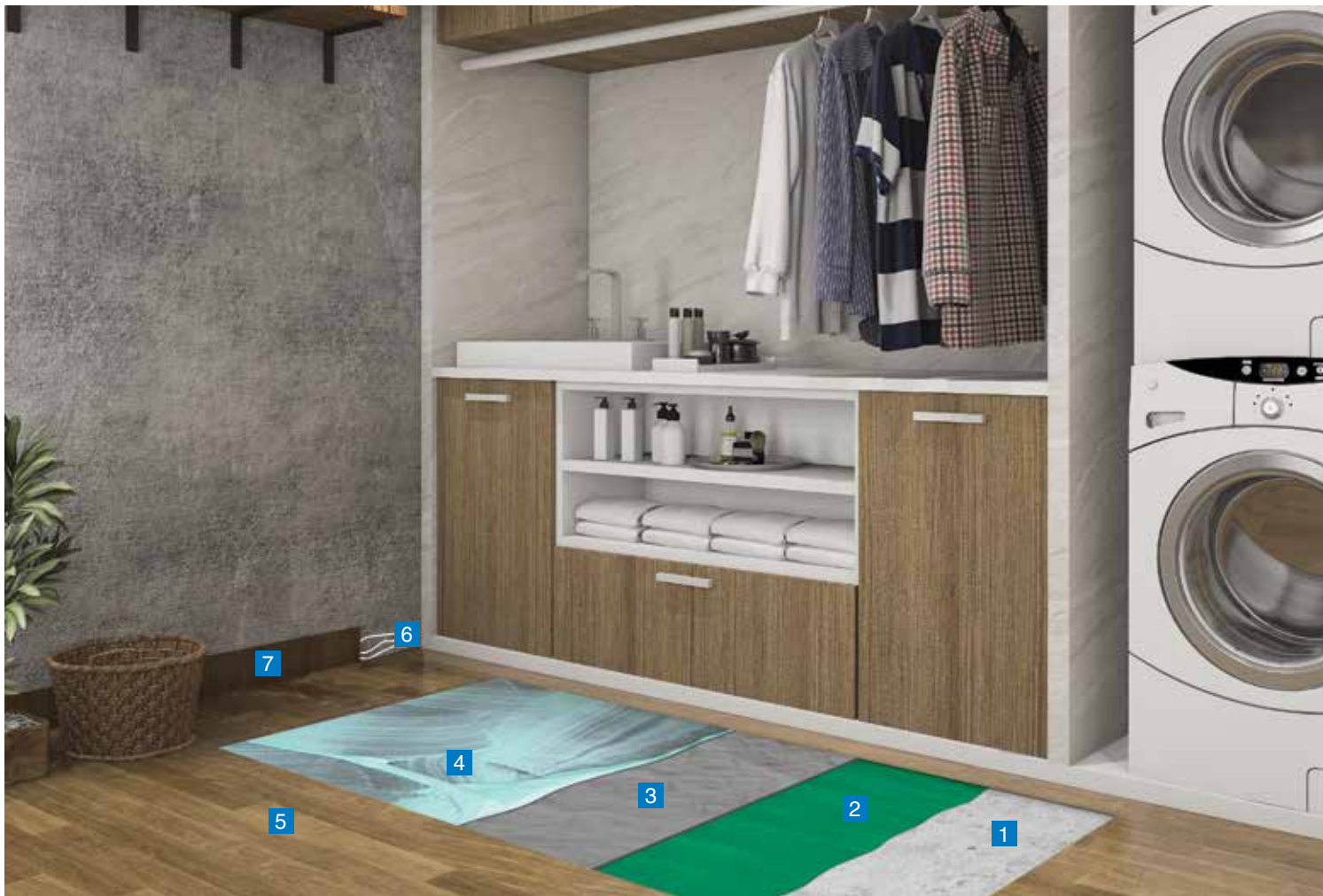
RESILIENT FLOORING AND WATERPROOFING, WITH INTERMITTENT WATER EXPOSURE

- 1 Concrete
- 2 **Mapelastic AquaDefense**
- 3 **Planiprep SC**
- 4 **Ultrabond ECO 811**
- 5 Fiberglass-reinforced sheet vinyl
- 6 **Ultrabond ECO 575**
- 7 Cove base

Resilient flooring for occasionally wet areas like laundry rooms has come a long way. It's not like the old-fashioned, thin, brittle sheet vinyl and self-stick tile. Sheet vinyl now comes in a large variety of styles, including patterns that look like wood, stone and ceramic tile. Sheet vinyl with fiberglass backing can be installed using a loose-lay, modified loose-lay (tape under seams) or full-spread method.

**Issues:** Spills; topical moisture; heavy use

**Solutions:** Water-resistant membranes; high-performing adhesives



# INTERIOR

## SHOWER FLOOR

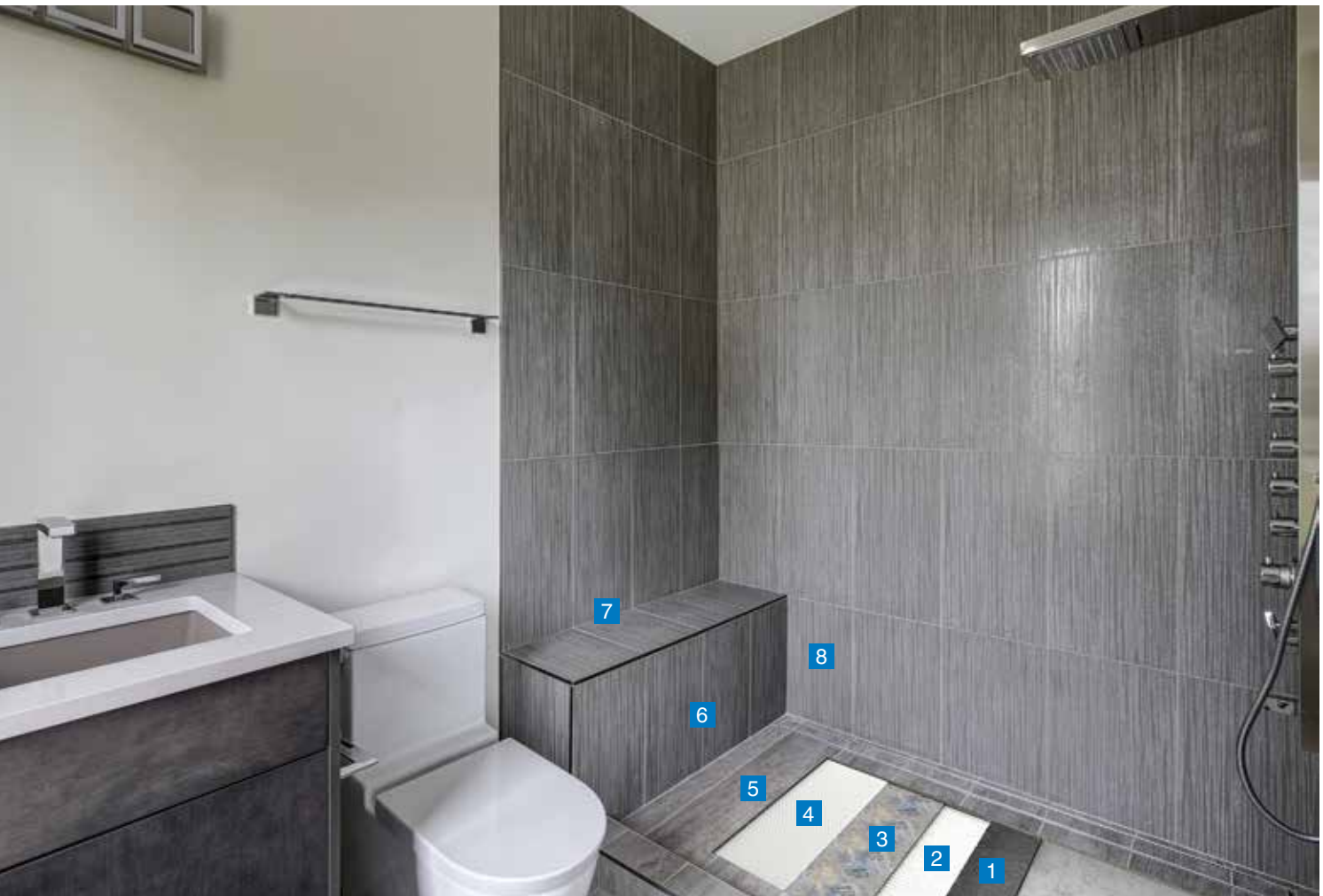
NATURAL STONE

Custom materials in a small space provide a custom look for a reasonable cost. Utilizing the right installation products will help to protect that investment for years to come.

**Challenges:** Scratching; aesthetics

**Solutions:** Unsanded grout in wide range of colors

- 1 **4 to 1** mortar for sloping
- 2 **Ultraflex 2**
- 3 **Mapeguard WP 200** and **Mapeguard WP ST**
- 4 **Ultralite S2** – white
- 5 Marble tile
- 6 **Keracolor U**
- 7 **Mapesil T**
- 8 **UltraCare Penetrating Stone, Tile & Grout Sealer**

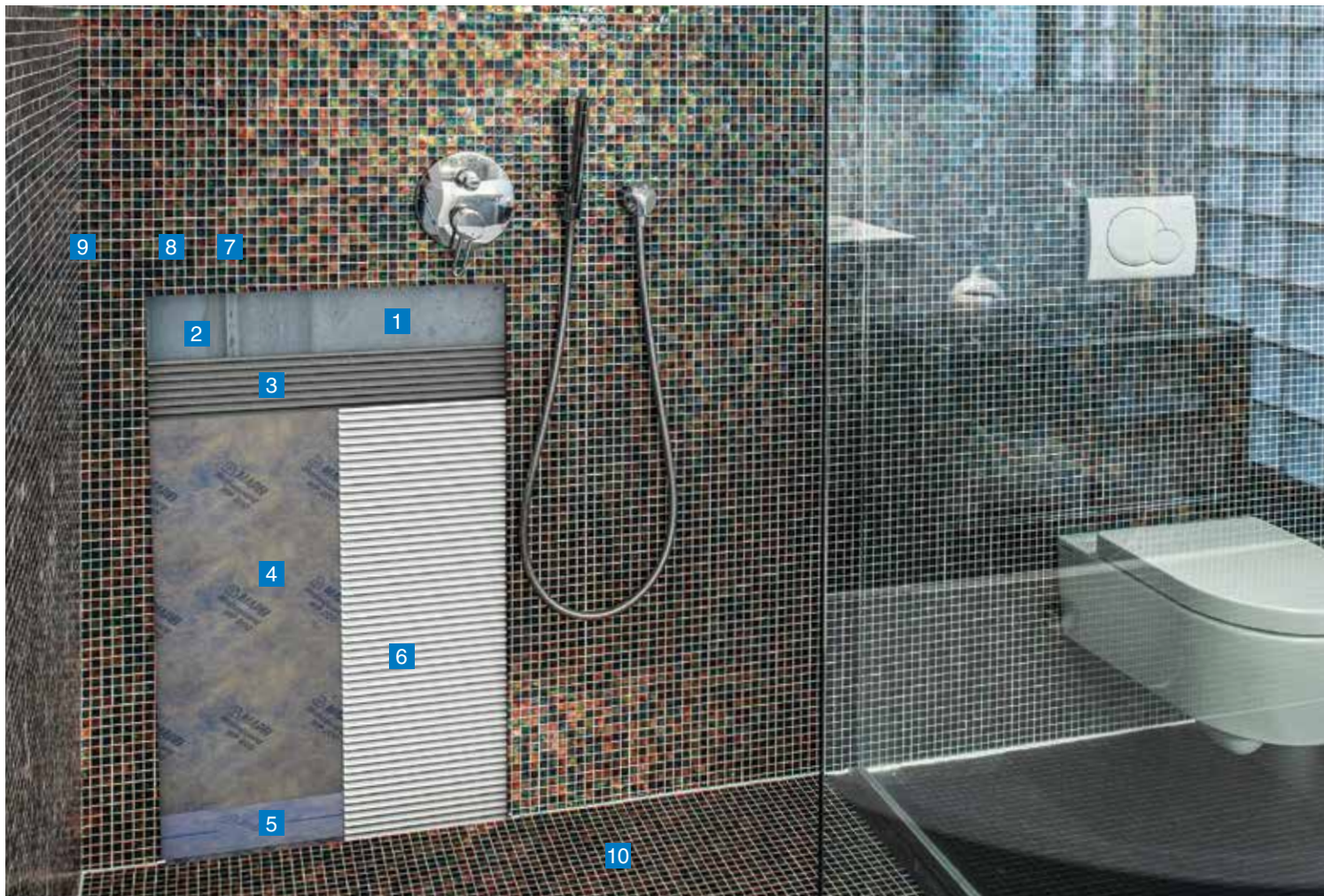


- 1 Cement board
- 2 *Planitop 330 Fast*
- 3 *Ultralite Mortar*
- 4 *Mapeguard WP 200*
- 5 *Mapeguard WP ST*
- 6 *MAPEI Ultralite S2* – white
- 7 Mosaic tile
- 8 *MAPEI Flexcolor CQ* (or *MAPEI Flexcolor 3D*)
- 9 *Mapesil T*
- 10 *UltraCare Penetrating Plus Stone, Tile & Grout Sealer* (for stone)

Tub and shower surrounds have long since graduated from 3" x 3" (7.5 x 7.5 cm) ceramic tile and pre-fabricated pieces. Mosaic wall tile is available in mesh-backed marble, natural-stone pebbles, tumbled travertine, glass tile, and even mixed-media combinations of these materials.

**Challenges:** Mixed-media installations; moisture; staining

**Solutions:** Waterproofing membrane; mixed-media-ready grout



# INTERIOR

## ELEVATOR CAB FLOOR

GRANITE TILE

Elevator cabs can be a challenging application, especially for hard surfaces like tile. A major concern is minimizing or isolating deflection from the floor system to keep tiles and grout from cracking. A MAPEI crack-isolation membrane provides a long-lasting but cost-effective solution to tiled elevator cabs.

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

**Solutions:** Multiple methods are available. MAPEI's Technical Services Product Support Team advises designers in selecting the right products for high-traffic, specialty areas.

- 1 Plywood or backerboard
- 2 **MAPEI SM Primer**
- 3 **Mapeguard 2**
- 4 **Granirapid System**
- 5 Granite tile
- 6 **Kerapoxy CQ**
- 7 **Mapesil T**
- 8 **UltraCare Penetrating Plus Stone, Tile & Grout Sealer**





# INTERIOR

## ELEVATOR CAB FLOOR

LUXURY VINYL TILE

- 1 Steel
- 2 *Ultrabond G21*
- 3 LVT

Luxury vinyl tile (LVT) is a versatile solution for almost any application. In an elevator, it will stand up to everyday use while making the space more welcoming.

**Challenges:** Unique substrate; public access; durability

**Solution:** An adhesive with low volatile organic compounds (VOCs) that is also designed to aggressively adhere to such substrates as properly prepared metal



# INTERIOR

## FOYER

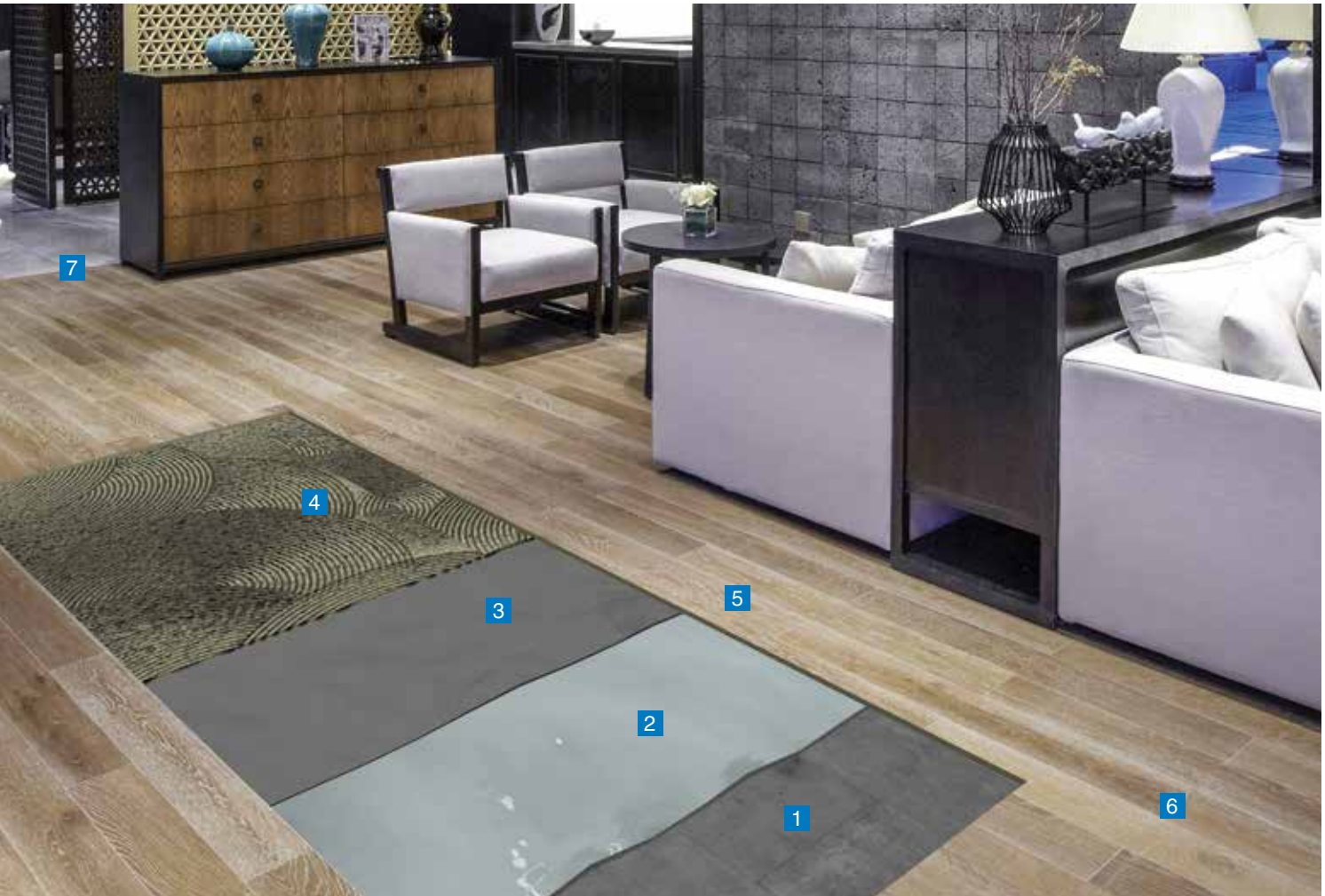
LUXURY VINYL PLANK

Creation of highly durable design solutions will challenge any design professional when it comes to high-profile areas such as flooring for foyers, media rooms and clubhouses. Single-source, warranted products will allow you to expand your designs without limiting the possibilities.

**Challenges:** High profile; high traffic

**Solution:** Top-quality products that simplify installation without sacrificing performance

- 1 Concrete
- 2 **Primer T**
- 3 **Ultraplan LSC**
- 4 **Ultrabond ECO 373**
- 5 LVP
- 6 **MAPEI Flexcolor CQ**
- 7 **Mapesil T**



# INTERIOR

## RECEPTION HALL

BROADLOOM CARPET  
OVER EXISTING TILE

- 1 Existing tile flooring
- 2 *ECO Prim Grip*
- 3 *Ultraplan LSC*
- 4 *Ultrabond ECO 285*
- 5 Broadloom carpet

Large, multi-use areas such as reception halls, dining rooms and clubhouses often require multiple changes of wear surfaces. If removal of existing flooring is not practical, choose products designed to install new flooring over the old.

**Challenges:** Demolition costs; quick turnaround

**Solutions:** Primers for existing surfaces; complete systems to ensure compatibility



# INTERIOR

## RECREATION ROOM

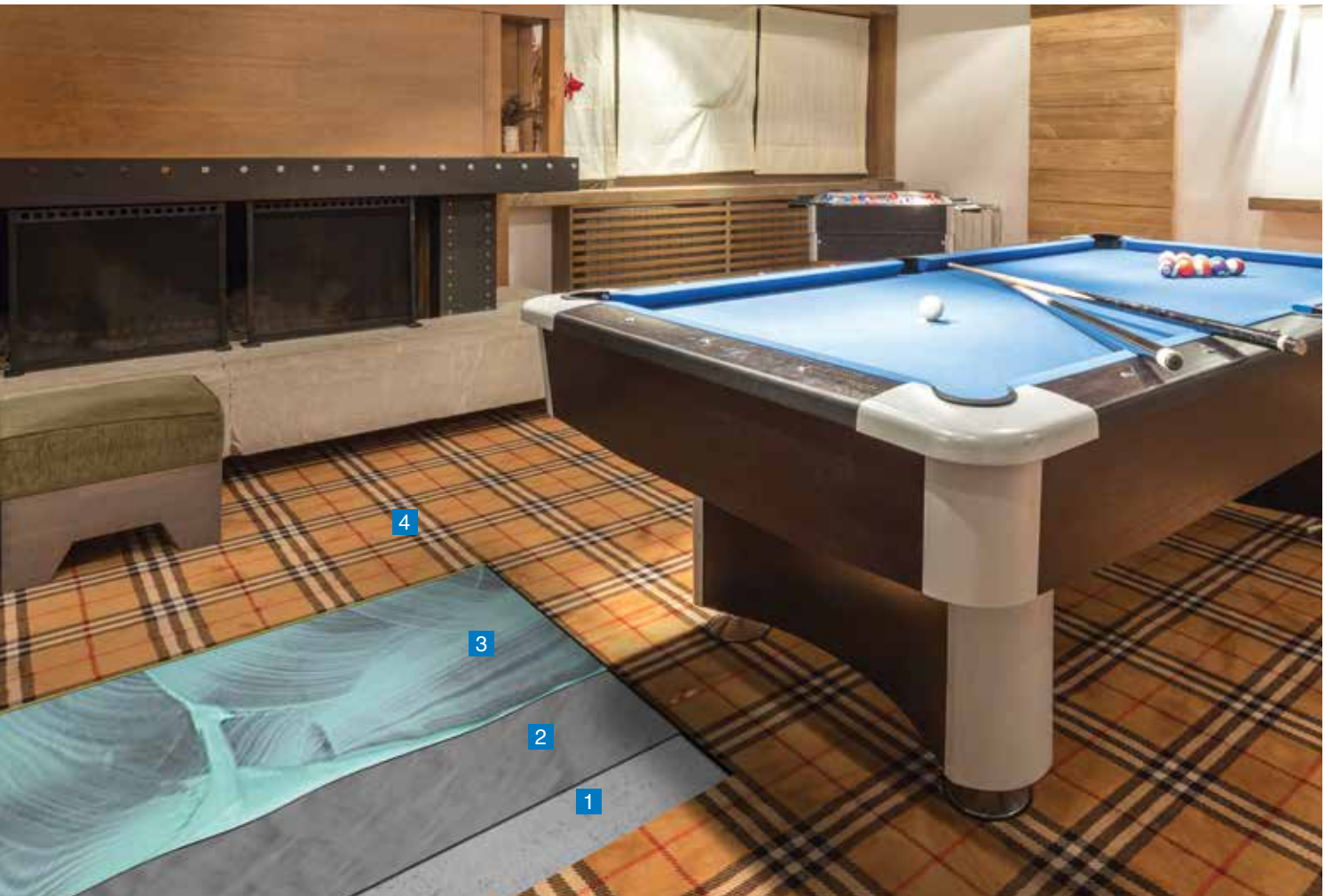
### CARPET TILE

Amenities such as recreation rooms provide great options for entertaining, but parties and events lead to spills and stains. Installing modular carpet tiles in these areas allows for a quick and easy fix of one tile or many.

**Challenges:** Surface prep; replacement considerations

**Solutions:** Smooth skimcoats; releasable adhesives

- 1 Concrete
- 2 *Planiprep SC*
- 3 *Ultrabond ECO 811*
- 4 Carpet tile with PVC (vinyl), non-PVC, polyolefin, felt or bitumen backing



# INTERIOR

## GYM

### RUBBER FLOORING

- 1 Concrete
- 2 *Planipatch*
- 3 *Ultrabond ECO 560* (or *Ultrabond G21* or *Ultrabond ECO 570*)
- 4 Granulated, recycled rubber sheet flooring
- 5 *Ultrabond ECO 575*
- 6 Vinyl or rubber cove base

Finished surfaces must be durable in spaces frequented by numerous users, such as gyms and recreation rooms. But comfort and sound control are important requirements as well.

**Challenges:** Heavy equipment; pivoting

**Solutions:** Ultra high-performing adhesives



# INTERIOR

NEW CONCRETE  
WITH HIGH  
MOISTURE

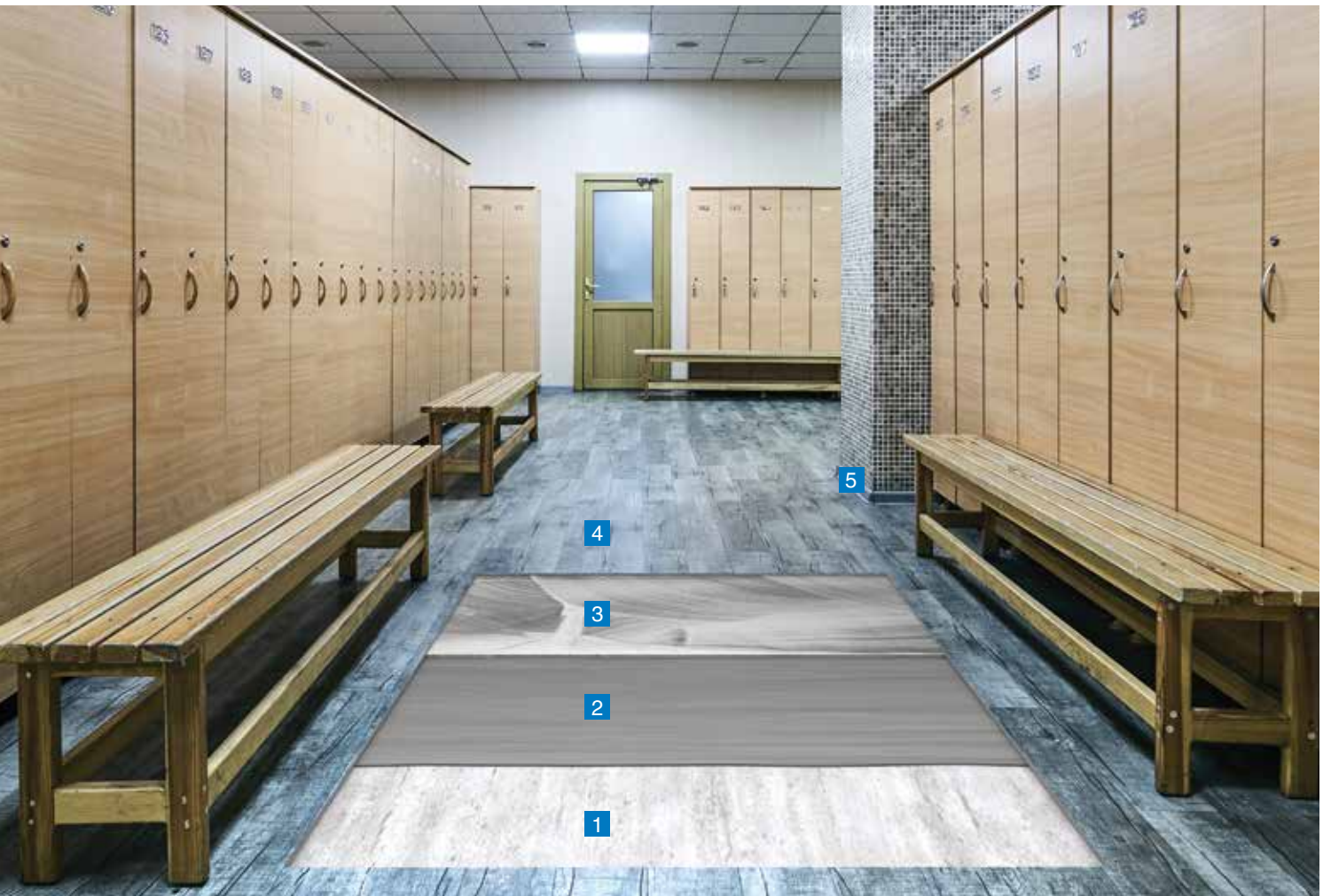
SOLID VINYL  
FLOORING

Some installation conditions just cannot be controlled. MAPEI has developed surface-preparation solutions for substrates that are open to the environment or not yet acclimated to operating temperatures. When time is of the utmost importance, MAPEI's system solution of surface preparation, moisture control and bonding helps to shave hours off the installation process

**Challenges:** HVAC not operating, leveling required, high moisture substrate conditions

**Solutions:** Moisture-resistant skimcoating or patching compounds; moisture-tolerant adhesives

- 1 Concrete
- 2 *Planiprep MRS*
- 3 *Ultrabond G15*
- 4 Solid vinyl flooring
- 5 *Mapesil T*



- 1 Concrete
- 2 *Planiprep MRS* (or *Mapecem Quickpatch*)
- 3 *Planiseal PMB*
- 4 *Ultrabond ECO 980*  
(or *Ultrabond ECO 975*)
- 5 Engineered wood flooring

To protect your flooring from the ravages of subfloor moisture as well as to expedite floor-covering installation, start with a moisture-control membrane. Not only will this protect your new floor from potential moisture issues, it will allow you to install that floor in weeks, if not months, before concrete can sufficiently dry enough under normal evaporative conditions.

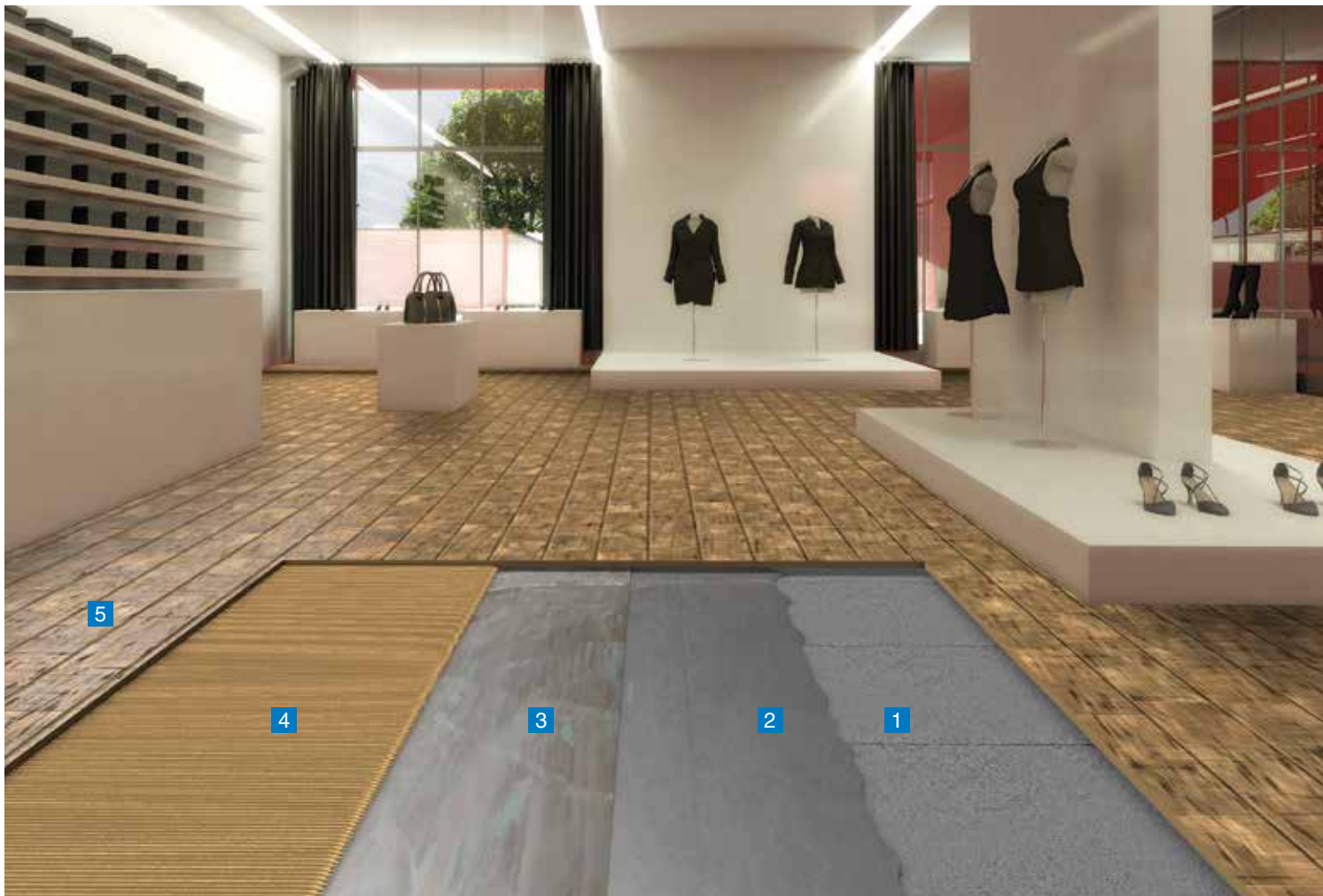
**Challenges:** High substrate moisture from new concrete; short turnaround time; aggressive bond

**Solutions:** Polyurethane moisture-control product; moisture-resistant skimcoating or patching compounds; high-strength urethane adhesives

# INTERIOR

NEW CONCRETE  
WITH HIGH  
MOISTURE

ENGINEERED WOOD  
FLOORING



## Sustainability and residential high-rises 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 residents. 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 Team 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.



### Green Circle Certified

Green Circle certifies a number of aspects of products for compliance to sustainable program requirements. For MAPEI, our Manufacturer's Inventory documents have been Green Circle certified as complying to the requirements of LEED v4 and other programs.



### 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 the Living Building Challenge (LBC) and the WELL Building Standard.



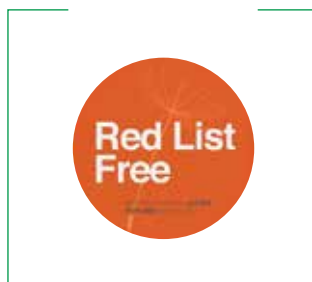
### Green Label Plus

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.



## **Adesilex™ P10**

### **Premium Glass Tile Mortar with Polymer**

*Adesilex P10* is a premium-grade, bright white, multipurpose thin-set mortar formulated with nonsag properties. *Adesilex P10* is designed for glass tile, glass mosaic and marble mosaic, and is ideal for light translucent natural stone.

## **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.

## **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 WB**

### **Water-Based, 100%-Acrylic Primer for Elastocolor Coatings**

*Elastocolor Primer WB* is a water-based, 100%-acrylic primer for use with *Elastocolor* coatings. *Elastocolor Primer WB* improves adhesion on porous, dusting and new substrates.

## **Fiberglass Mesh**

### **For Mapelastix™, Mapelastix 315, Mapelastix HPG and Mapelastix Smart Waterproofing Products**

MAPEI's *Fiberglass Mesh* is a ready-to-use, thin, strong yet flexible alkali-resistant mesh for embedment with waterproofing and crack-isolation membranes, including MAPEI's *Mapelastix*, *Mapelastix 315*, *Mapelastix HPG* and *Mapelastix Smart* on residential and commercial floors, walls and ceilings.

*Fiberglass Mesh* reinforces and improves the performance of MAPEI's waterproofing membranes when applied over cracks, coves and corners and around drains on residential and commercial applications. *Fiberglass Mesh* can be cut to size with scissors or a razor knife,

and has excellent compatibility with all MAPEI cement- or epoxy-based mortars.

## **Granirapid® System**

### **Premium, Rapid-Setting, Flexible Tile Mortar**

*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, 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.

## **Kerabond® T / Keralastic™ System**

### **Premium, Flexible Large-and-Heavy-Tile and Thin-Set Mortar**

*Kerabond T / 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 T*, which is a premium-grade, large-and-heavy-tile mortar (formerly known as "medium-bed mortar") and thin-set mortar. This system has exceptional bond strength, flexural strength, elongation and freeze/thaw durability.

## **Keracolor® U**

### **Premium Unsanded Grout with Polymer**

*Keracolor U* is a premium-grade, pre-blended, polymer-modified unsanded Portland-cement tile grout that requires only the addition of water for mixing. It will grout joints from 1/16" to 1/8" (1,5 to 3 mm).

## **Keraply®**

### **Professional Latex Additive for Tile Mortar**

*Keraply* is a professional-grade, acrylic latex admixture used to enhance the performance of MAPEI's non-modified, dry-set mortars as well as *Adesilex™ P10* glass tile mortar. As a highly recommended admixture, *Keraply* enhances

bond strength, flexural strength, elongation and freeze/thaw durability.

## **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.

## **Mapeband™**

### **Rubber-Coated Waterproofing Accessories**

*Mapeband* cove roll and drain flashing are flexible, rubber-coated polyester accessories for waterproofing. They are designed for fast, easy embedment with MAPEI's *Mapelastix*®, *Mapelastix 315*, *Mapelastix HPG*, *Mapelastix AquaDefense* and *Mapelastix Smart* waterproofing membranes over coves, corners, drains, expansion and movement joints.

## **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.

## **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 interior/exterior 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 Hard LI* is especially effective on old, worn and dusting floors, as well as for improving the wearing characteristics and abrasion resistance of new concrete. Floors treated with *Mapecrete Hard LI* typically last longer, are easier to maintain, and will not peel or flake off.

## **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 concrete floors. *Mapecrete Protector FF* is ideal for polished or decorative concrete and cement terrazzo floors, and helps to protect against accidental spills of water and other staining materials (such as food products and household cleaners). *Mapecrete Protector FF* also increases the reflectivity (or gloss) of polished concrete floors.

## **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™ 50**

### **Extra High-Strength, High-Flow, Pre-Fabricated Drainage Composite**

*Mapedrain 50* is an extra 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 50*'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.

## **Mapeflex™ P1**

### **One-Component, Nonsag Elastomeric Polyurethane Sealant**

*Mapeflex P1* is a high-performance, one-component, elastomeric, moisture-cured, polyurethane sealant and adhesive. *Mapeflex P1* offers excellent adhesion to most surfaces, superior gunning and tooling, as well as excellent flexibility for moving joints. *Mapeflex 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™ 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 Finish 450*, in combination with the proper *Mapefloor* parking deck system, protects concrete substrates from water and chloride penetration while, at the same time, providing a seamless, attractive, slip-resistant wearing surface.

## **Mapefloor™ PU 400**

### **Two-Component, Polyurethane Basecoat for Mapefloor Parking Deck System**

*Mapefloor PU 400* is a two-component, polyurethane basecoat specifically designed for use as a waterproofing membrane for surfaces subject to pedestrian and vehicular traffic, such as multi-story parking garages, balconies and walkways. With its high flexibility and crack-bridging properties, *Mapefloor PU 400* is well-suited as an intermediate layer on concrete substrates subject to vibration, particularly those surfaces that support moving vehicles. *Mapefloor PU 400* provides a seamless, monolithic membrane that bonds firmly to clean, dry and properly prepared concrete.

## **Mapefloor™ PU 400 LV**

### **Two-Component, Low-Viscosity, Polyurethane Basecoat for Mapefloor Parking Deck System**

*Mapefloor PU 400 LV* is a two-component, low-viscosity, 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 LV* 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.

## **Mapeguard® WP 200**

### **Waterproofing Sheet Membrane for Ceramic Tile and Stone**

*Mapeguard WP 200* is a thin, flexible polyethylene sheet membrane with a nonwoven, polypropylene fabric on both sides, used for both waterproofing and crack isolation in interior/ exterior residential and commercial applications. The laminated fabric webbing is designed to anchor the membrane to the substrate and tiles to the membrane using the bonded thin-set method with recommended, polymer-modified

mortars. *Mapeguard WP 200*'s low perm rating performance is ideal for vapor protection in showers, wet areas and steam rooms.

## **Mapeguard® WP ST**

### **Waterproofing Sealing Tape for Mapeguard WP 200**

*Mapeguard WP ST* is a fast and easy way to cover seams and wall upturns to provide waterproofing and vapor management protection when installing *Mapeguard WP 200* waterproofing sheet membrane for ceramic tile and stone.

## **MAPEI Flexcolor™ 3D**

### **Ready-to-Use, Translucent Grout with an “Iridescent Effect” Finish**

*MAPEI Flexcolor 3D* is a professional-grade, ready-to-use (RTU) translucent specialty grout with an “iridescent effect” finish. It is offered in 10 designer colors with translucent characteristics that not only reflect but also refract light. This allows the grout to transition in color to complement the tile color. The “translucent effect” is most noticeable with the color Crystal Moon (#201), while the other nine colors exhibit a more pronounced “iridescent effect.”

*MAPEI Flexcolor 3D* is also formulated for commercial and residential interior installations of porcelain, ceramic, glass and natural-stone tiles. Plus, the dense surface structure of the grout helps to prevent water-based stains on the grout surface.

*MAPEI Flexcolor 3D* is formulated with the latest innovation in recycled glass-bead 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.

Comparison testing of *MAPEI Flexcolor 3D* versus traditional Portland-cement grout has verified that *MAPEI Flexcolor 3D* requires 65% less time to install than powder grouts.

## **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.

## **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™ Mortar**

### **Premium, Lightweight Mortar with Polymer for Large-and-Heavy Tile**

*MAPEI Ultralite Mortar* is a premium-grade, lightweight, single-component thin-set mortar that can also be used for large-and-heavy-tile (formerly known as “medium-bed”) and nonsag applications. This high-performance, polymer-modified mortar is formulated with Easy Glide Technology™ for ease of application, and with BioBlock® technology for mold and mildew resistance. *MAPEI Ultralite Mortar*'s unique Ultralite Technology™ provides twice the coverage of a standard thin-set mortar per pound/kg and may contribute to LEED points with more than 20% recycled content.

## **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® 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). *Mapelastix 315* exceeds ANSI A118.10 requirements for waterproofing and is IAPMO-listed for use as a shower-pan liner.

### **Mapelastix® AquaDefense**

#### **Premium Waterproofing and Crack-Isolation Membrane**

*Mapelastix 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. *Mapelastix 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 *Mapesand™* accessories (cove roll and drain flash) to provide additional protection. *Mapelastix AquaDefense* dries after about 30 to 50 minutes and is then ready to receive any MAPEI polymer or epoxy mortar. *Mapelastix 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.

### **Mapelastix® WSM**

#### **Polyethylene, Waterproofing Sheet Membrane**

*Mapelastix WSM* is a waterproofing, vaporproofing and crack-isolation sheet membrane consisting of a polyethylene core covered with a nonwoven polypropylene. It is used with ShowerPerfect™ shower installations systems in horizontal as well as vertical tiling applications. *Mapelastix WSM* is designed for waterproofing a 3' x 5' (0,91 x 1,52 m) tub-to-shower conversion, including the shower pan and shower walls, with the roll size of 39" x 30' (99 cm x 9,14 m). It is plumbing-code-approved with PMG products certified by ICC-ES (International Code Council) and Canada's cUPC (Uniform Plumbing Code) products listed by IAPMO.

### **Mapeproof™ Granules**

#### **Sodium Bentonite Granules**

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

### **Mapeproof™ HW**

#### **Bentonite Geotextile Sheet Waterproofing Membrane**

*Mapeproof 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 m<sup>2</sup>). 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, *Mapeproof HW* hydrates and forms a monolithic waterproofing membrane when exposed to moisture. *Mapeproof 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 *Mapeproof HW* can seal small concrete cracks caused by ground settlement, concrete shrinkage or seismic action. *Mapeproof 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 m<sup>2</sup>). 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.

### **Mapesand™ Fine**

#### **Calibrated, 20/40 Mesh Sand**

*Mapesand Fine* is a calibrated, washed and oven-dried, 20/40 mesh silica sand for use as an extender for *Planitex™ SL* gypsum self-leveling underlayment, and to improve the bond of resin and epoxy primers with self-leveling and topping compounds.

### **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.

### **Mapesil™ 3D**

#### **100%-Silicone Sealant for Corner and Change-of-Plane Joints**

*Mapesil 3D* is a professional-grade, 100%-silicone sealant for use on multiple substrates. This sealant is specifically formulated to offer direct color matches to *MAPEI Flexcolor™ 3D* grout.

### **Mapesil™ T**

#### **100%-Silicone Sealant for Heavy Traffic and Movement Joints**

*Mapesil T* is a professional-grade, 100%-silicone sealant for use on multiple substrates. This product is specifically formulated for heavy traffic and expansion/movement joints exceeding both ASTM and ANSI standards.

### **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.

## **Mapesonic™ RM**

### **Premium Sound-Reduction and Crack-Isolation Rubber Membrane**

*Mapesonic RM* is a high-performance acoustic underlayment designed to reduce the passage of ambient and impact sound transmissions for ceramic tile and stone installations. It is ideal for applications such as apartments, condominiums, college dormitories, classrooms and office buildings.

## **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 nonshrink, 100%-solids and moisture-tolerant. *Planibond EBA* is used primarily as a bonding agent for screeds and repair mortars.

## **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, 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.

## **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 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* is used in those areas with soils containing high alkalinity, near seawater or where sulfate groundwater is present, such as underground structures, retaining walls, foundations, slabs on grade, coal-fired power plants, sewage-treatment plants and fertilizer plants. *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 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 *Mapelloor™* polyurethane and epoxy deck and flooring systems, and 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.

#### **Reinforcing Fabric**

MAPEI's *Reinforcing Fabric* is a strong, absorbent, flexible, alkali-resistant, polyester reinforcing fabric for optional use with *Mapelastac® AquaDefense* and *Mapelastac WaterStop* membranes when installed under ceramic tile or stone on residential and commercial interior applications.

*Reinforcing Fabric* is ideal for use over substrate areas such as cracks, coves, corners and areas around drains when used with *Mapelastac AquaDefense* and *Mapelastac WaterStop*. *Reinforcing Fabric* provides a durable, reliable barrier to water mitigation into adjacent areas. It can easily be cut to size with scissors or a razor knife, and has excellent compatibility with all MAPEI cement- or epoxy-based grouts and mortars.

### **Ultrabond ECO® 185**

#### **Professional Carpet Adhesive**

*Ultrabond ECO 185* is a longtime favorite adhesive of the commercial carpet installer with fast grab, excellent leg development and superb bond strength. *Ultrabond ECO 185* is FastTrack Ready™, making it 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 m<sup>2</sup>) per 24 hours and 90% relative humidity. Use to install carpets with jute, polypropylene (ActionBac), latex-unitary, sponge-rubber, hot-melt (Unibond), needle-punched, woven, closed-cellular urethane and Enhancer backings.

### **Ultrabond ECO® 220**

#### **Premium Flooring Adhesive**

*Ultrabond ECO 220* is designed specifically for installing most carpet and felt-backed sheet flooring. Its high-solids formulation is perfectly

suited for commercial flooring applications where heavy traffic is expected. *Ultrabond ECO 220* also exhibits an extended working time, making it ideal for the installation of patterned carpets. *Ultrabond ECO 220* may be used in both direct and double glue-down installation methods for carpet.

### **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 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® 420**

#### **Professional, Outdoor Carpet Adhesive**

*Ultrabond ECO 420* is MAPEI's long-standing favorite for installing most types of outdoor carpet products. Excellent moisture resistance, freeze/thaw stability and superb bond strength make *Ultrabond ECO 420* the perfect choice for residential and light commercial installations of outdoor carpet. *Ultrabond ECO 420* is easy to trowel and has plenty of working time, even in the warmest installation conditions. Nonflammable and CRI Green Label Plus certified, *Ultrabond ECO 420* is MAPEI's best recommendation for outdoor carpet installations over concrete, wood and fiberglass.

### **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® 570**

#### **Premium, Urethane Rubber-Sports-Flooring Adhesive**

*Ultrabond ECO 570* is a moisture-curing, one-component, polyurethane polymer adhesive specifically designed for the direct bonding of high-performance reground-rubber sports flooring in interior or exterior applications. Its unique formulation is perfectly suited for most types of reground-rubber sports flooring and provides an aggressive and durable bond. *Ultrabond ECO 570* utilizes rapidly renewable raw materials as part of the formulation and is free of phthalate plasticizers.

### **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 m<sup>2</sup>) 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® 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® 905**

### **Professional Wood-Flooring and Tackstrip Adhesives**

*Ultrabond ECO 905* is a fast-curing, 100%-solids, moisture-curing urethane gun-grade adhesive designed for basic wood subfloor construction practices as well as wood-flooring repair, wood stair nosings, wood molding, baseboards and tackstrip attachments to concrete subfloors. *Ultrabond ECO 905* is also a general-purpose construction adhesive suitable for use in both interior and exterior applications.

## **Ultrabond ECO® 975**

### **Standard Urethane Adhesive for Hardwood Flooring**

*Ultrabond ECO 975* is a 100%-solids, one-component, moisture-cured urethane adhesive specifically designed for the installation of domestic solid and engineered wood 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 ECO® 985**

### **Hybrid-Polymer-Based, Moisture-Control and Sound-Reducing Wood-Flooring Adhesive**

*Ultrabond ECO 985* is MAPEI's premium single-component, hybrid-polymer-based wood-flooring adhesive that is formulated without water, solvents, amines, isocyanates, phthalate plasticizers or epoxy resins, and has an extremely low emission level of volatile organic compounds (VOCs). *Ultrabond ECO 985*'s formulation provides excellent sound-reduction properties that are required for multi-unit housing. *Ultrabond ECO 985* is also a moisture-controlling wood-flooring adhesive that protects wood flooring from moisture vapor emitting through concrete slabs in a single application.

## **Ultrabond ECO® 3185**

### **Premium, Latex Carpet Pad Cement**

*Ultrabond ECO 3185* latex carpet pad adhesive is a water-based adhesive for fastening carpet padding permanently in place over any flooring surface. It has good initial tack and high strength to prevent movement of padding during stretching or subsequent use. *Ultrabond ECO 3185* has no solvent added and is nonflammable, making it suitable for use in enclosed environments in occupied buildings.

## **Ultrabond® G15**

### **Premium, Fast-Setting, Epoxy Flooring Adhesive for High-Moisture**

*Ultrabond G15* is a fast-setting, two-part reactive epoxy adhesive with low volatile organic compounds (VOCs), designed for the installation of 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 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™ Grout Maximizer**

### **Grout Additive for One-Step Grouting and Sealing**

*UltraCare Grout Maximizer* is a neutral-pH, fluoro-based, liquid polymer admixture for *Keracolor® S* and *Keracolor U* Portland-

cement-based grouts, to be used in place of water. *UltraCare Grout Maximizer* optimizes resistance to water and oil-based stains, increases grout hardness and improves color consistency.

## **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.

## **Ultracoat® High-Traffic**

### **Two-Component, Water-Based, Polyurethane Wood-Flooring Finish**

*Ultracoat High Traffic* is a two-component, water-based wood-flooring finish that is available in the gloss levels of matte, satin and semi-gloss. Suitable for use in interior residential and heavy commercial applications where extreme traffic is expected, *Ultracoat High Traffic* is an aliphatic polyurethane resin system with excellent abrasion resistance for solid, pre-sanded wood floors. *Ultracoat High Traffic* adds a warm color to the wood and is non-yellowing.

## **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™ 2**

#### **Professional Tile Mortar with Polymer**

*Ultraflex 2* is a professional-grade, single-component, high-performance, polymer-modified thin-set mortar for interior and exterior installations of ceramic, porcelain and dimensional natural-stone tile. This mortar has a high content of unique dry polymer, resulting in excellent adhesion to the substrate and tile. *Ultraflex 2* meets or exceeds ANSI A118.4 and ANSI A118.11 requirements when mixed with water. *Ultraflex 2* can be used for interior and exterior installations of tile in most residential floor and wall applications. In commercial applications, use on interior floor and wall installations and exterior floors.

### **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.

### **Ultraflex™ LFT™ Rapid**

#### **Premium, Rapid-Setting, Large-and-Heavy-Tile Mortar with**

*Ultraflex LFT Rapid* is a premium, rapid-setting, non-sag, large-and-heavy-tile mortar (formerly known as "medium-bed mortar") and thin-set mortar for large-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. *Ultraflex LFT Rapid* is FastTrack Ready™, allowing grouting in 3 to 4 hours.

### **Ultraflex™ RS**

#### **Premium, Rapid-Setting Tile Mortar with Polymer**

*Ultraflex RS* is a premium-grade, single-component, high-performance, polymer-modified, rapid-setting thin-set mortar for interior and exterior installations of tile. This mortar has a high content of unique dry polymer, resulting in excellent adhesion to the substrate and tile. *Ultraflex RS* is a FastTrack Ready™ product, allowing grouting in 2 to 3 hours. It can be used for both interior and exterior installations of tile in most residential floor and wall applications. In commercial applications, use on interior floor and wall installations and exterior floors. *Ultraflex RS* meets or exceeds ANSI A118.4F, ANSI A118.11 and ANSI A118.15F requirements for fast-setting mortars when mixed with water.

### **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 jobsites. 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®**

#### **High-Performance, Self-Leveling Concrete Topping**

*Ultratop* is a self-leveling, self-curing topping that is specially formulated for fast-track resurfacing of horizontal wear surfaces.

### **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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SYSTEM SOLUTIONS GUIDE

# RESIDENTIAL HIGH- RISES



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