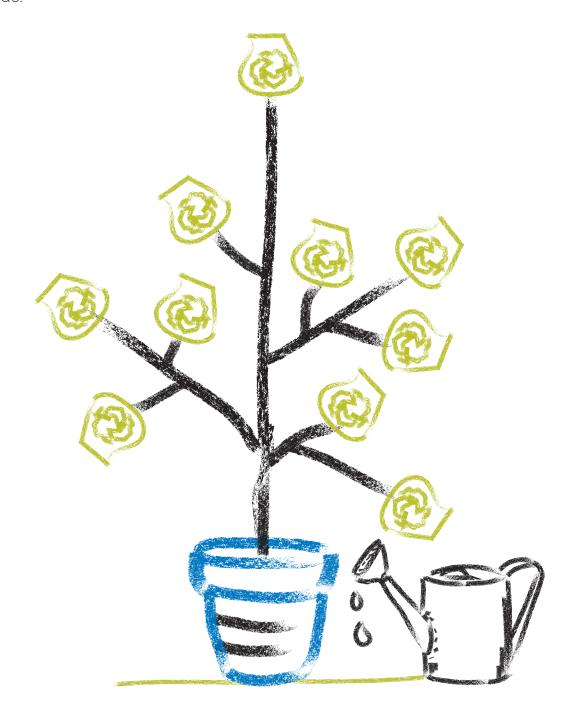
# **HEALTH** and the **ENVIRONMENT**

Our commitment to health and the environment is built into everything we do.









# HEALTH and the ENVIRONMENT: MAPEI leads the way

Sustainability is not a new concept to MAPEI. Since the company was founded more than 80 years ago, we have focused on creating building products that are not only among the best and most durable in the industry, but that are also designed to minimize any harmful impact on the environment.

MAPEI always leads by example. From the beginning of the company, there has been a driving corporate philosophy that a certain percentage of profits should be reinvested into research and development, in order to create industry-leading products that have a minimal impact on human health and the environment throughout their entire life cycle. The life cycle must be extensive, and the products must be durable – but in addition to offering high performance, MAPEI products are developed with the well-being of users and the environment in mind. That mandate has been a constant throughout the company's history – well before "sustainability" was a buzzword.

MAPEI's three-pronged sustainability mandate – low environmental impact, low health impact and high durability - is the result of continual innovation and a dedication to creating sustainable solutions. It starts at our plants, where our operations are conducted with sustainability in mind throughout a "cradle-to-grave" process. Every step of the process is examined to ensure that, from beginning to end, our carbon footprint is as small as possible. In order to track this process, MAPEI has implemented a formal environmental management system (EMS) according to ISO 14001. To this end, we developed an environmental policy and timetable for the implementation of the EMS at all of our North American facilities. As of 2020, most MAPEI facilities have been certified to ISO 9001 and ISO 14001 standards.

The process continues with our products' documentation, packaging and shipping. As a manufacturer, we are transparent about our ingredients. We are proud to say that a wide variety of our products contribute to green building standards and certification programs including LEED, the WELL Building Standard and the Living Building Challenge.

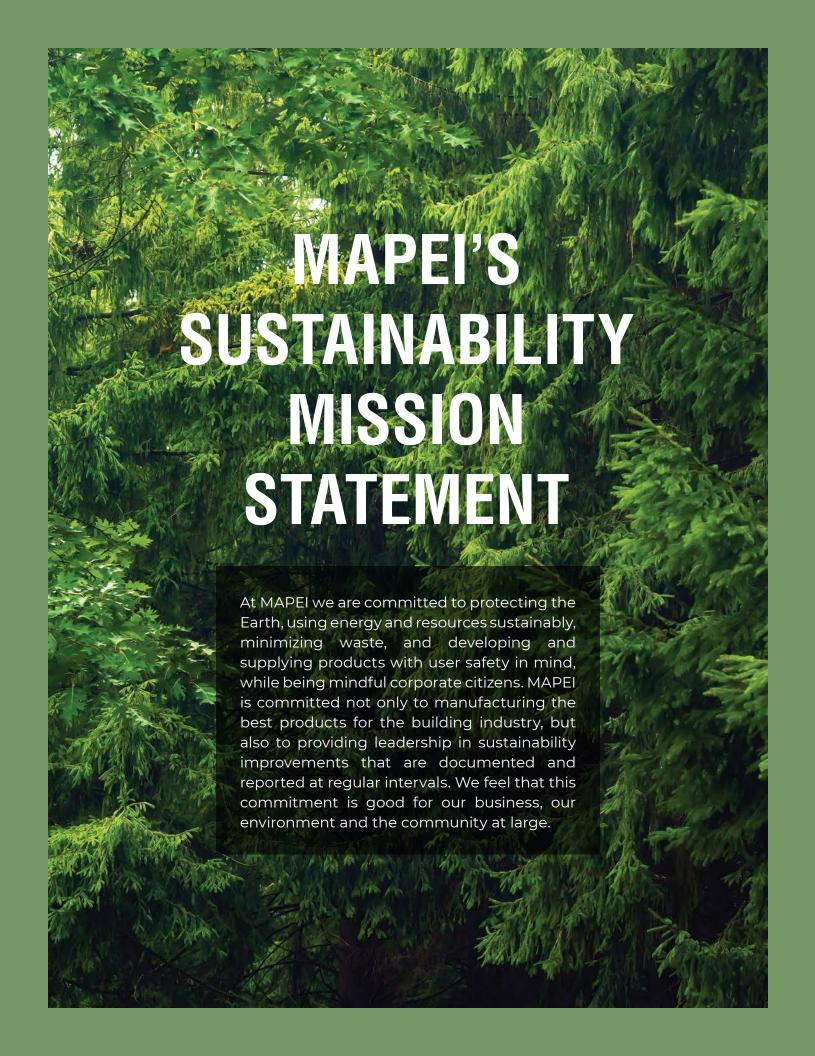
Even the way that we package our products is environmentally based: We've switched to machinery that utilizes plastic packaging, which is not only recyclable, but also helps decrease the costs that can occur with product leakage and waste. Further, recent improvements in our logistics have helped to keep transportation costs and fuel consumption low, while reducing our carbon footprint.

Perhaps the most important part of our three-pronged sustainability approach is also the result of our strong commitment to our people and our communities. At MAPEI, we always say that our people are our greatest asset. And it is true. We encourage our employees to take time with their families to participate in their communities and to volunteer their time to make this a more socially sustainable world. Whether we are building homes for veterans, donating materials and building skills to charity "Blitz Build" projects, donating to local food banks or participating in customer-sponsored charity events, our people truly embody the ethos of giving rather than taking and of working to make their communities - where we all live and work - better places. This commitment was recently recognized when our Deerfield Beach, FL. headquarters achieved Fitwel certification. Fitwel is an evidence-based standard that "promotes individual" and community health through improvements to building design and operations." This certification is strong proof of MAPEI's commitment to the health and sustainability of our community, our industry, our customers, and our employees.

In this report, you will find examples of our sustainable facilities, our innovative products and processes, and our commitment to health and the environment. We are very proud of these core values. They have guided us to be more transparent than ever before.

3:

Luigi Di Geso President and CEO, MAPEI North America



When it comes to our company's sustainable approach – **PEOPLE**, **PLANET**, **PRODUCTS** – MAPEI's processes focus on sustaining the environment for today and tomorrow.



### PEOPLE

MAPEI's corporate vision, including our Code of Ethics, has always included the philosophy of sustainability. However, products may be recycled, but people are not a commodity to be turned over and "recycled" and MAPEI recognizes this fact. We treat our employees as individuals and with compassion and care. And, we care not only for our people, but also for our communities in which we live and work. Community involvement is strongly encouraged, as is the promotion of healthy practices.



### PLANET

Our operational processes are conducted with sustainability in mind regarding every stage of production – from research and development to manufacturing and packaging – to reduce our carbon footprint and maximize our environmental "handprint". These are the actions that we take to reduce our overall negative impact on the environment.



### **PRODUCTS**

Our products reflect our commitment to sustainability, including transparency about our ingredients' impact on human health and the environment. Our products also contribute to a variety of green building standards and certification programs including LEED, the WELL Building Standard and the Living Building Challenge.



# STAR RATING FOR FITWEL CERTIFICATION.

MAPEI's USA Headquarters in Deerfield Beach, FL, was recognized as the first manufacturing company in the building products industry to achieve Fitwel Certification. The headquarters is also the first building to be certified in Florida under the Fitwel Single-Tenant Building Rating System.

# VERIFIED FOR LEED DOCUMENTS (BETA)

MAPEI Corporation worked directly with Green Business Certification, Inc. (GBCI) to verify that our product documentation is LEED compliant.

6,500+

HOURS OF TECHNICAL TRAINING

with over 40,000 participants in 2020



## MAPEI CORPORATION'S HEADQUARTERS in Deerfield

Beach, FL, instituted a recycling program that includes office and home recycling practices for our employees.



## GIVING BACK TO THE COMMUNITIES where we live

and work is a core value for MAPEI. We truly believe in building better communities through our products and actions.

375+

# SCS INDOOR ADVANTAGE GOLD CERTIFIED PRODUCTS

for low VOC emissions and compliance with CDPH Standard Method v1.2-2017

45+

## HOMES BUILT FOR SEVEREL WOUNDED HEROES

by the Gary Sinise Foundation using MAPEI-donated setting materials

SUSTAINABLE ATTRIBUTES OR CERTIFICATIONS

that a single MAPEI product can have

# 375+

MAPEI CORPORATION
PRODUCTS AVAILABLE
ON MINDFUL MATERIALS

MANUFACTURING
SITES IN NORTH
AMERICA as well as our
corporate headquarters that have
achieved ISO 14001 Environmental
Management certification

70+

THIRD-PARTY VERIFIED
MATERIAL INGREDIENT
REPORTS, ALSO KNOWN
AS MANUFACTURER
INVENTORIES

THIRD-PARTY
CERTIFIED
GREEN SQUARED
CERTIFIED
PRODUCTS

LP50
LIVING PRODUCT 50

is a collaboration of leading manufacturers, including MAPEI, working to ensure that healthy, high-performing building materials with full ingredient transparency are the rule, not the exception.

400+
SUSTAINABILITY
PRODUCT REPORTS

for project teams pursuing LEED, Living Building Challenge, WELL Building Standard, etc.

30+

THIRD-PARTY VERIFIED ENVIRONMENTAL PRODUCT DECLARATIONS (EPDS)

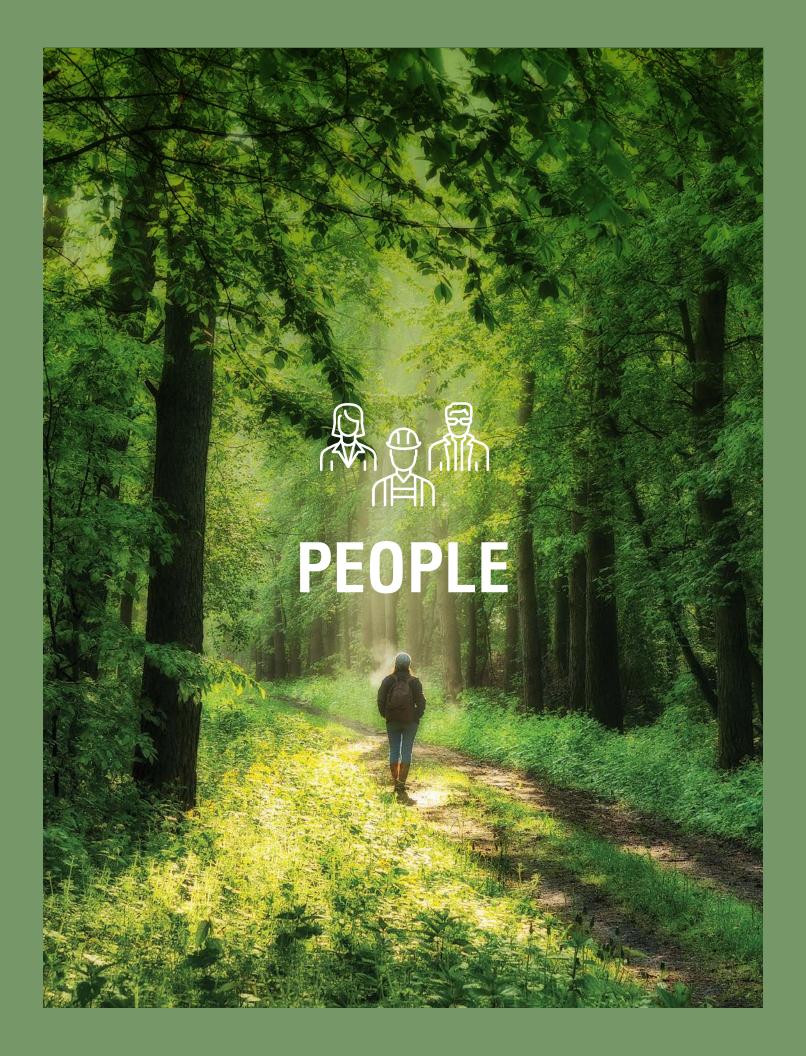
WINNER OF THE 2020

FCW GreenStep Product Award

WINNER OF THE 2019

FCW GreenStep International Award





### PEOPLE

People are the foundation and future of our success. We are committed to providing our people with safe and healthy working environments as well as opportunities for learning, growing and being recognized for their achievements. We are also committed to valuing the diversity of individuals and improving the communities where we live and work.

### **Industry involvement**

MAPEI takes pride in being a leader in the industries where we compete. To continue being a leader, we need to ensure that we understand the latest industry trends and keep our knowledge base current. We also want to be in a position to influence the ongoing public discussions of green building standards and certification programs. One of the most effective ways we can accomplish these goals is to be involved with green building organizations. Through our involvement with these organizations, MAPEI can be an advocate for our customers and for the communities they work in. We are actively involved with numerous green building organizations in many capacities. We are honored to serve as members, committee advocates and part of the day-to-day membership.













#### Our communities

Giving back to the communities where we live and work is a core value for MAPEI. We truly believe in building better communities through our products and our actions. As a corporation, we donate to a wide variety of local and national foundations and charities, ranging from helping victims of natural disasters, to organizing and participating in charitable events, to sponsoring events such as the UCI Cycling World Championship, to donating products for the Gary Sinise Foundation's R.I.S.E. program for veterans. When it comes to community service, MAPEI is there.









#### **Fitwel**

MAPEI Corporation's headquarters in Deerfield Beach, FL, has achieved Fitwel certification. Fitwel provides guidelines for designing, constructing and operating healthier buildings. This certification reinforces MAPEI's commitment to providing a healthy workplace for our employees.



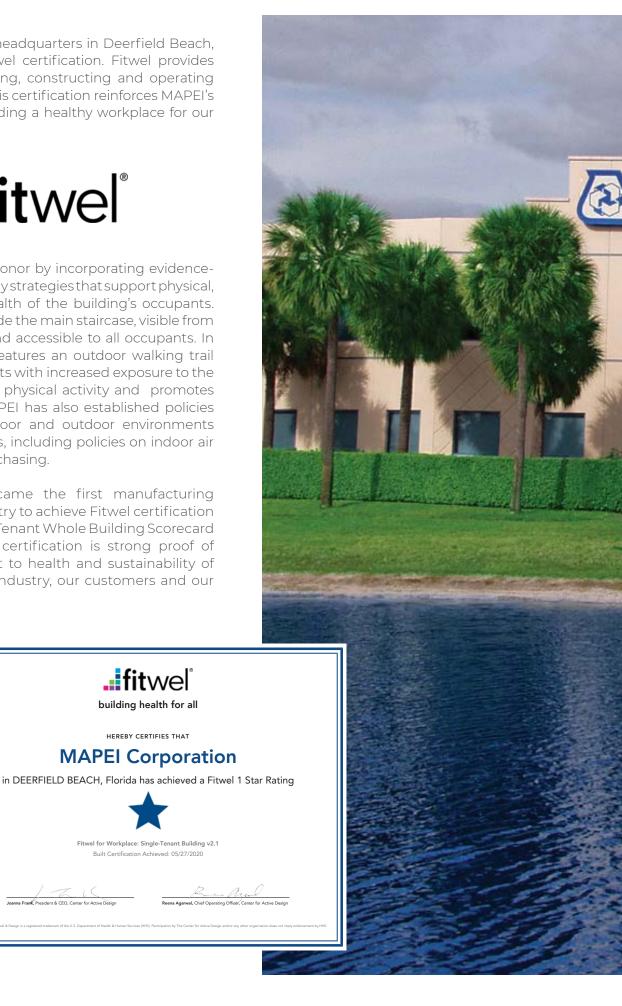
MAPEI received this honor by incorporating evidencebased design and policy strategies that support physical, mental and social health of the building's occupants. Notable features include the main staircase, visible from the main entryway and accessible to all occupants. In addition, the facility features an outdoor walking trail that provides occupants with increased exposure to the outdoors, encourages physical activity and promotes social interaction. MAPEI has also established policies to create healthy indoor and outdoor environments for building occupants, including policies on indoor air quality and green purchasing.

In 2020, MAPEI became the first manufacturing company in the industry to achieve Fitwel certification under Fitwel's Single-Tenant Whole Building Scorecard for Workplaces. This certification is strong proof of MAPEI's commitment to health and sustainability of the community, our industry, our customers and our employees.

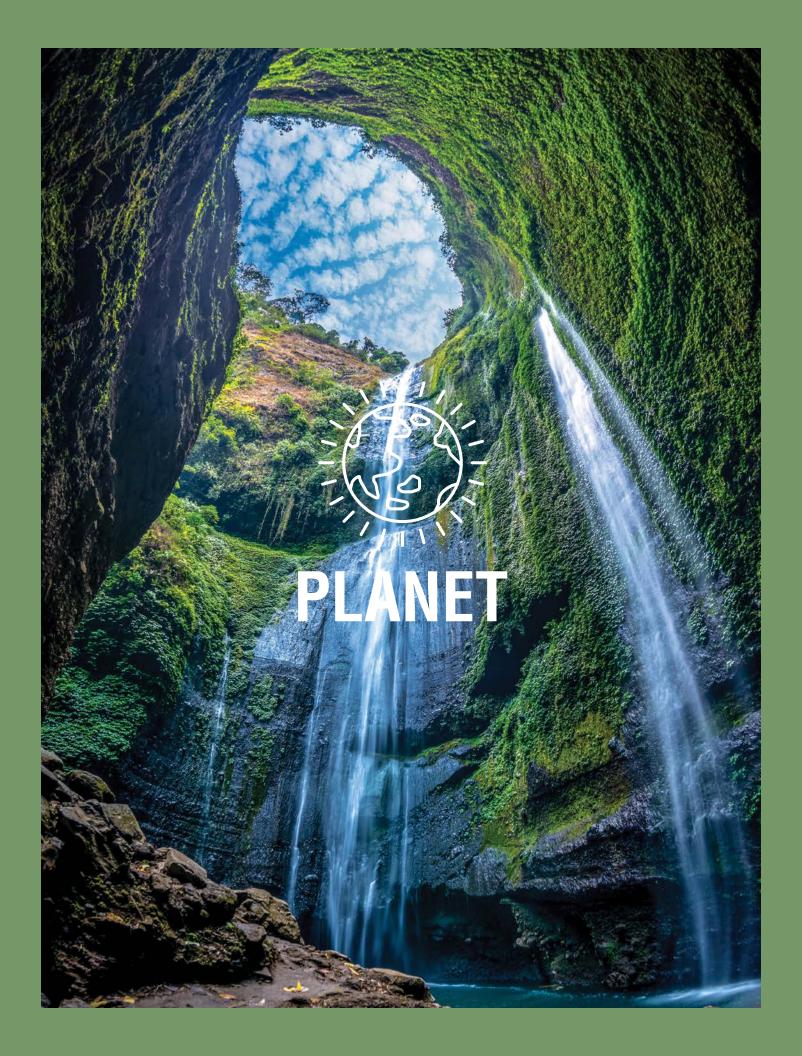
> **...** fitwel<sup>®</sup> building health for all

HEREBY CERTIFIES THAT

Fitwel for Workplace: Single-Tenant Building v2.1







### PLANET

### A cradle-to-grave approach to operational sustainability

MAPEI ensures that our triple bottom line – People, Planet, Products – operates in a manner that reduces pollution, minimizes environmental impact and effectively uses resources. From R&D to production to delivery, our products are designed to perform well, as well as to be environmentally responsible.

Even our facilities are included in sustainable goals: Nine of our manufacturing sites in North America as well as our corporate headquarters are ISO 14001-certified. Other sites will be certified in the near future.

### Reducing our carbon footprint

In order to reduce our carbon footprint, MAPEI monitors key performance indicators (KPIs) at all of our facilities. These indicators include electricity, gas, waste, freight transportation and employee transportation (business trips). By tracking these main contributors to our carbon footprint, we can continuously improve it.

# Overall carbon footprint

(lbs. of CO<sub>2</sub>/1,000 lbs. of product produced):

31%

from 2010 to 2020

## Energy consumption

(kWh per lb.) for product production:

27% REDUCTION

from 2010 to 2020

### Waste to landfill

(lbs. of waste generated/lbs. of product produced):

19%

from 2010 to 2020

## Natural gas consumption

(therms per lb.) for product production:

29% REDUCTION

from 2010 to 2020

### Fuel consumption

gallons per lb.) for outbound freight:

52%

from 2010

### PLANET

### Maximizing our social/environmental impact

Beyond reducing our footprint, we look for ways to increase our "handprint" by demonstrating our social (giving back to our communities) and our environmental (sustainability efforts in our plants) impact as well as creating innovative, sustainable products for our consumers to reduce their footprints and maximize their handprints.

Sustainability initiatives of MAPEI's plants are designed to align with and improve economic, environmental, and social sustainability (our 3 P's: People, Planet, Products).

### A few of our sustainability initiatives...

- Reduce, reuse and recycle, where applicable, to conserve natural resources, landfill space and energy.
- Reduce water consumption in our manufacturing process as well as our facilities, including installing water-efficient plumbing fixtures and drip irrigation.
- Install solar-powered and LED lighting to reduce energy consumption.
- Reduce product sampling to reduce waste and emissions associated with transportation.
- Reduce and reuse packaging to improve resource efficiency and reduce our carbon and environmental footprint.
- Use shredded paper, an eco-friendly alternative to bubble wrap, for shipments.
- Plant trees to improve community appearances and air quality.
- Continue to improve our recycling program.
- Implement and improve on Fitwel strategies.





### Sustainable production

MAPEI's R&D creates products that are on the leading edge of sustainable science. These products are developed to reduce health and environmental impacts in our ingredients and our packaging.

### **Planet-friendly processes**

"Sustainable chemistry" is key at MAPEI for providing sustainable solutions with low VOC emissions as well as responsible raw-material sourcing. The company's R&D chemists review product formulations in light of the latest published research to minimize the use of raw materials that are hazardous to humans and the environment. MAPEI's goal is to utilize materials that are less hazardous, yet still provide the performance requirements for the intended product application.

#### Production

To maintain the integrity of each formulation, a quality-control laboratory is a vital part of every MAPEI manufacturing facility. Quality-control chemists evaluate all incoming raw materials before they are used in the production of mortars, grouts, adhesives, waterproofing materials and other products. As finished work comes off of the production line, samples of all products are tested again to ensure that they meet the requirements of their formulas.

#### Packaging for sustainability

Following extensive research and consultation, MAPEI transitioned from using nonrecyclable, plastic-lined paper bags to 100%-recyclable, vacuum-sealed plastic bags for product packaging. The move to plastic bags helped to extend product shelf life, eliminate leakage and better protect products from environmental intrusion, making them more suitable for outdoor storage. MAPEI believes that preventing unused product from spoilage and waste is a crucial step in environmental responsibility. Changing the production process was a trailblazing move in MAPEI's efforts to lead our industry in sustainability.



\* 10 subsidiaries in 57 countries

50 main research \_ centers in 21 countries



production
facilities in 5 continents in 36 countries



10,500+ employees





### **PRODUCTS**

MAPEI leads the industry in product transparency, which is now a major focus of LEED, the Living Building Challenge, the WELL Building Standard and other green building standards.

From material sourcing through packaging disposal, transparency of a product at each stage of its life cycle has become a critical driver in specifying and purchasing building products. As proof of our commitment to sustainability, MAPEI offers the following current and relevant third-party verified certifications and sustainable attributes:

- · Environmental Product Declarations (EPDs)
- Material Ingredient Reports: Manufacturer Inventories (MI)
- Low Volatile Organic Compound (VOC) emissions that meet California Department of Public Health (CDPH) Standard Method v1.2-2017
- Low VOC content that meets South Coast Air Quality Management District (SCAQMD) Rule 1113 and 1168
- · Recycled content
- · Green Squared
- · Red List Free Chemicals

Plus, MAPEI produces a wide variety of products that meet or exceed the stringent requirements of green building standards and certification programs:









LIVING BUILDING

CHALLENGE<sup>®</sup>







#### **Environmental Product Declarations**

An EPD is a voluntarily developed, comprehensive report prepared according to international standards: ISO 14025 and EN 15804. An EPD documents the impacts a product has on the environment throughout its entire life cycle (cradle to grave) by measuring these effects according to standardized Life Cycle Assessment (LCA) methodology.

MAPEI provides more than 30 Industry-Wide and Product-Specific EPDs for a wide range of products:

### Industry-Wide Type III EPDs

Industry-Wide EPDs are generic declarations that cover the average product across many manufacturers. While these EPDs are third-party verified, they do not cover individual products since they only account for the average product in the group.



TCNA currently has three industry-wide EPDs for Ceramic Tile, Cement Grout and Cement Mortar for Tile Installation in North America. MAPEI contributes to the development of EPDs for Cement Grout and Cement Mortar for Tile Installation. These EPDs are third-party verified by UL Environment.

### **Product-Specific Type III EPDs**

Product-Specific Type III EPDs cover a product, or products, from a single manufacturer.



MAPEL has gone beyond TCNA's industry-wide **EPDs** publish Product-Specific EPDs. Product-Specific Type III EPDs can further contribute to LEED credits. Our Product-Specific Type III FPDs are more valuable project teams pursuing LEED version 4.1 as they are MAPEI-

specific products and third-party verified by the International EPD® System.



### **Recycled Content**

Pre-consumer content and post-consumer content are both valuable, and both types play important roles in promoting sustainable practices. Using recycled content has many significant environmental advantages, such as reducing environmental impacts resulting from extraction and processing of virgin materials.

Examples of MAPEI's dedication to recycling and recycled content include:

MAPEI's Mapesonic<sup>™</sup> line of sound-reducing products utilizes post-consumer content. These underlayments are made from 83% post-consumer recycled content. For every 100,000 sq. ft. (9 290 m²) of Mapesonic RM that is installed, approximately 1,400 tires are diverted from a landfill.

### **Green Squared Certified**

The Green Squared certification is the tile industry's first multi-attribute sustainability certification. This certification was developed by the Tile Council of North America (TCNA) to recognize tile and

tile-setting materials that are in conformance with ANSI A138.1 (a sustainability-product standard) and third-party verified by SCS Global Services to evaluate, validate and communicate a product's human health and environmental impacts.



### Manufacturer Inventory (MI)

A Manufacturer Inventory (MI) is a transparency document that shows the ingredients in a product, as well as any associated hazards. MI's give



MAPEI the freedom to develop a reporting document that aligns with mandatory regulatory chemical audit methodologies, while providing the same required information and verification rigor as other material ingredient

reporting options (such as HPDs, Cradle to Cradle certifications and Declare Labels).

Our third-party MI's are more valuable to project teams pursuing LEED version 4.1 as they are thirdparty verified by GreenCircle Certified.



### **Red List Free Chemicals**

MAPEI products contribute to the International Living Future Institute's Red List Free requirements. The Red List represents the "worst in class" materials, chemical and elements prevalent in the building products



industry that are known to pose serious risks to human health and the greater ecosystem.

### **Volatile Organic Compounds (VOCs)**

MAPEI provides a wide selection of products with low VOC content and low VOC emissions certifications. Many MAPEI products carry The SCS Global Services' Indoor Advantage Gold certification and/or The Carpet and Rug Institute's (CRI) Green



Label Plus certification, both signifying low VOC



emissions and compliance with California Department of Public Health (CDPH) Standard Method v1.2-2017 (widely known as CA Section 01350). CDPH Standard Method v1.2-2017 is the most widely used standard in North America for emissions testing and for evaluation of building products, including flooring adhesives and sealants.



### MAPEI's Health & Environment online section

For more information on MAPEI's commitment to sustainability as well as how MAPEI products may contribute to green building standards and certification systems, visit our Website at www.mapei.com. On our Health & Environment pages, you will find links to our sustainability documentation.

For additional information including other green-building standards and certification program contributions, contact sustainability\_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

### mindful MATERIALS

MAPEI is proud to participate in mindful MATERIALS (www.mindfulmaterials.com). This free, third-party



platform contains aggregated information on the environmental and health impacts of products from leading industry manufacturers. Inclusion in mM is not a certification, but the platform is a certification library designed to showcase

product transparency and information, allowing manufacturers and industry professionals to easily search for sustainable product.

### MATERIAL INGREDIENTS ☐ C2C Certified™ C2C Material Health Certification □ Declare™ ☐ Health Product Declaration (HPD) LEEDv4 Material Ingredient List **ENVIRONMENTAL PROFILE** EPD - PS: ISO14025/EN15804 EPD - IW: ISO14025/EN15804 LCA - ISO 14040/14044 **VOCs** ☐ VOC Content Reported VOC Emissions Certified ☐ 100% FCS® Certified ANSI NSC 373 Natural Stone Std. Post-Consumer Recycled Pre-Consumer Recycled OTHER INFORMATION Manufacturer Location Disclosed





## SUSTAINABILITY PRODUCT REPORTS

### **How to read a Sustainability Product Report**

Our products can have up to 7 sustainable attributes or certifications. This 2-page report summarizes all of the product's applicable attributes or certifications. MAPEI has more than 400 Sustainability Product Reports, which can be found on our Website or requested via email at sustainability\_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada)

### Product summary

This general product information includes links to the Product Page, Technical Data Sheet and Safety Data Sheet.

#### **Volatile Organic Compounds (VOCs)-**

VOC content: Product meets South Coast Air Quality Management District (SCAQMD) Rule 1113 or 1168.

VOC emissions: The SCS Indoor Advantage Gold certification certifies that the product meets the California Department of Public Health (CDPH) Standard Method (CA 01350) v1.2-2017 for the school classroom, private office, and single-family residence parameters.

#### **Material Ingredients**

Similar to HPDs, Cradle to Cradle Certifications, or Declare Labels, our third-party verified material ingredient reports, Manufacturer Inventories (MIs) provide the product's ingredients and associated hazards. Additionally, project teams can request product-specific Red List letters from MAPEI.





### **Environmental Product Declaration (EPD)**

Third-party verified Industry-Wide and Product-Specific Type III provide the product's environmental impact throughout its life cycle.

### Recycled content -

If applicable, post- and pre-consumer recycled content will be found in this section. Recycled content does not have to be third-party verified.

### **Regional materials**

Project teams can request product-specific manufacturing locations from MAPEI.

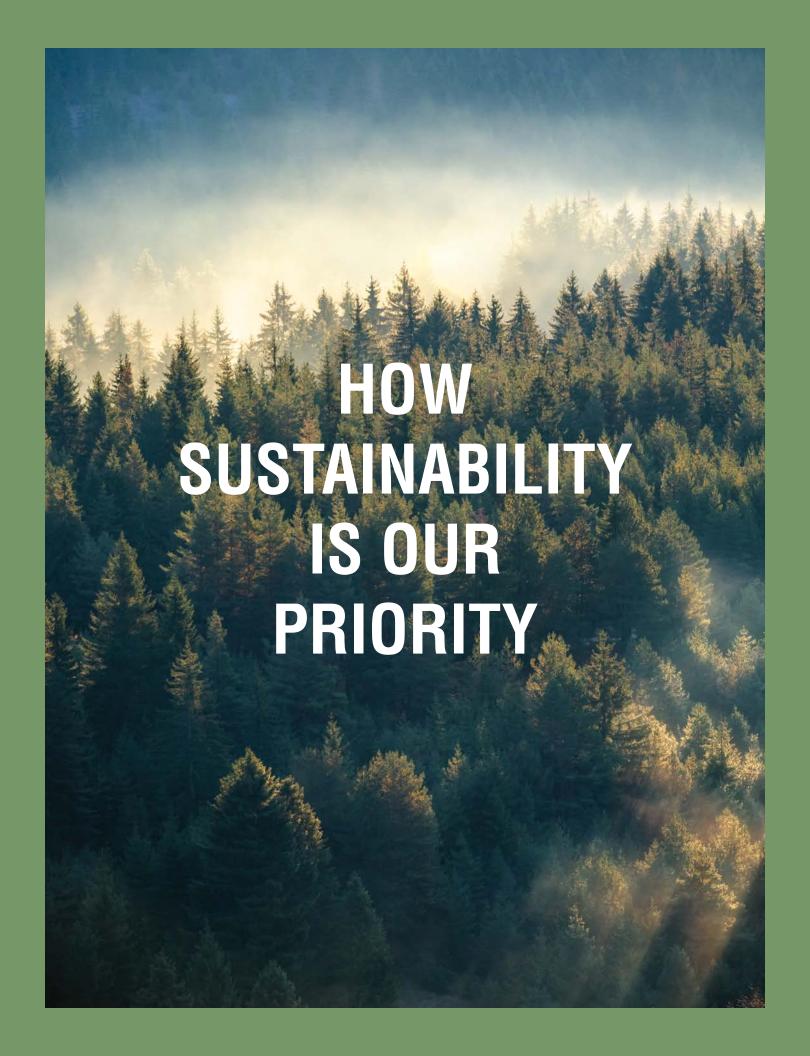
#### **Green Squared Certified**

Third-party verified Green Squared certification communicates the product's environmental impact throughout its life cycle as well as its human health impacts.

#### Additional Information

In addition to the Sustainability Product Reports, project teams can find all of our products in the mindful MATERIALS (mM) library and on our Website.





# 10 examples of MAPEI's commitment to sustainable practices



**Fitwel certification**, which MAPEI successfully achieved by incorporating evidence-based design and policy strategies that support the physical, mental and social health of the occupants in MAPEI's corporate headquarters in Deerfield Beach, FL. This recognition reinforces MAPEI's commitment to providing a healthy workplace for our employees.



**Ultralite Technology**, used in the production of lightweight adhesives, offering higher yield, less effort and less environmental impact during transport



**Development** of sustainable, environmentally friendly products, which accounts for 70% of R&D investments



**Improved indoor air quality**, resulting from research and development of product formulations with extremely low emissions of volatile organic compounds (VOCs), starting with the *Ultrabond ECO*® line in the 1980s



**Certification of MAPEI facilities** to ISO 9001 and ISO 14001 quality standards



**Logistics and shipping strategies** that reduce the consumption of fuel and pollutants by promoting the use of rail transport instead of road transport



"Reduce, reuse, recycle" strategies involving reduction of solid waste and wastewater as well as the use of recycled content and recyclable packaging when producing MAPEI products



**Energy-saving solutions** for existing buildings and strategies for constructing energy-saving new buildings



Supporting green building standards and certification systems such as USGBC's Leadership for Energy and Environmental Design (LEED), ILFI's Living Building Challenge (LBC) and IWBI's WELL Building Standard



**Life-cycle assessment** of MAPEI products by a dedicated team specializing in evaluating environmental impact





#### **MAPEI Headquarters of North America**

1144 East Newport Center Drive Deerfield Beach, Florida 33442 1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### **Technical Services**

1-800-992-6273 (U.S. and Puerto Rico) sustainability\_USA@mapei.com (USA)

1-800-361-9309 (Canada) sustainability-durabilite@mapei.com (Canada)

### **Customer Service**

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

#### **Services in Mexico**

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

