



MAPEI UNDERGROUND TECHNOLOGY TEAM: WE ARE IN THE TUNNEL AND MINE WITH YOU FROM THE START TO THE END OF THE JOB

MAPEI's Underground Technology Team (UTT) delivers innovative and sustainable solutions tailored to the unique demands of underground construction work. Our dedicated team comprises polymer chemists, material scientists, civil and mining engineers, and highly skilled technicians for laboratory and on-site support.

In addition to the regular construction challenges faced on above-ground jobsites, each underground job features additional unique challenges due to the often-severe locations. MAPEI's UTT group was established to address these demands, partnering with clients from project inception through testing, implementation, and ongoing support as needed. Our solutions and products are the creation of permanent industry needs. We collaborate and exchange ideas with our clients, such as conditions and application particularities, material properties, and sustainable business development. We integrate all aspects into the final formulation to deliver high-performance results.

From the project specification, to the admixtures for shotcrete and concrete, to the final protective coatings, MAPEI's UTT group and technologies are there for the whole job. The UTT group is a successful division of MAPEI Group, which has provided proven construction system solutions for more than 85 years.

Established in 1937, MAPEI Group is a global corporation based in Milan, Italy, and includes 98 subsidiaries that comprise 106 plants in 59 countries. MAPEI is a world-leading manufacturer of mortars, grouts, and adhesives, as well as complementary products for installing floor and wall coverings. MAPEI manufactures chemical products for building, including waterproofing products, admixtures for concrete and repair products, and decorative and protective

exterior coatings, as well as the UTT product line.

The UTT corporate group was established in 1999 and has successfully developed solutions and products since then. The UTT group in the United States started in earnest in 2015, and the business has grown substantially since then, enlarging the team and capabilities. In the underground industry, safety and speed are essential — not only for the products themselves, but also of the evolution of technology. MAPEI reinvests a significant portion of its annual profits in research and development (R&D) to maintain a leading technological advantage, dedicating 5% of total turnover to innovation and product development. MAPEI's commitment to R&D ensures that the UTT line comprises innovative and technologically advanced products that the UTT team is trained to use and implement to the end user with great satisfaction.

The UTT product line is divided into seven categories:

- Concrete technologies include more than 70 products, ranging from superplasticizers, accelerators, and retarding agents to accessory products dedicated to every type of underground concrete application, including shotcrete, ready-mixed concrete, and precast concrete.
- Injection, consolidation, and anchoring products consist of a complete range of ready-to-use cementitious mixtures, chemical mixtures, and chemical resins designed for underground injection into rock, soil, and concrete structures. These products help to stop water leaks and improve soil properties, internal cohesion, and anchorage.
- Waterproofing systems feature a wide range

SUSTAINING CORPORATE MEMBER PROFILE

of waterproofing options, including synthetic geomembranes and spray-applied membranes for all moisture conditions.

- Renovation, maintenance, and repair technologies include products for repairing concrete, fireproofing mortars, equipment for ready-to-use shotcrete, and injected products.
- Coatings for underground construction include protective paints, cementitious mortars, and ceramic coatings.
- Mechanized tunneling offerings from UTT encompass a range of products and on-site technical assistance services to support clients throughout tunneling projects, from start to finish.
- Mining solutions are provided for a quickly changing industry, focusing on sustainability and high-end technology to become more efficient and competitive for current and future generations.

No matter the division or the product line, MAPEI is known

for quality products and for providing system solutions. The distinguishing point for UTT is the field support and applied technology in the field. Simply put, UTT doesn't just sell a product, but rather goes into the field and helps customers use the products — on their jobsite, with their conditions, personnel, and equipment. UTT services a project from the very beginning to the very end like no one else in the industry does. MAPEI also has the agility to adjust to the customers' needs when necessary.

CONTACT INFORMATION:

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MAPEQUICK alkali-free accelerators are used to achieve rapid setting and fast strength development.



MAPEI's UTT group offers unmatched field support.