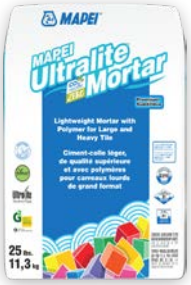
MAPEI's *Ultralite* family

Lightweight polymer-modified mortars

MAPEI®

Features and benefits of MAPEI's *Ultralite* mortars



MAPEI Ultralite® Mortar

Premium, lightweight mortar with polymer for large and heavy tile

ANSI A118.4HET, A118.11, A118.15HET and A138.1

SUSTAINABLE, CO_2-OFFSET PRODUCT

- CO_2 fully offset, using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs
- Non-sag formula for large and heavy tile/stone
- Nonslump for large and heavy tile and stone in floor applications
- Smooth and creamy consistency for easy-glide troweling
- For thicker bond coats from 3/32" to 1/2" (2.5 to 12 mm)

ISO 13007 C2TES1P1

	Product Code	Color	Packaging
Canada	2429011CAN	Gray	Bag: 25 lbs. (11.3 kg)

MAPEI Ultralite® Mortar Pro

Professional, lightweight mortar with polymer for large and heavy tile

ANSI A118.4HET, A118.11 and A138.1

- Non-sag and nonslump formula for large and heavy tile/stone
- Smooth and creamy consistency for easy-glide troweling

ISO 13007 C1TES1

	Product Code	Color	Packaging
Canada	2429211CAN	Gray	Bag: 25 lbs. (11.3 kg)
	2429311CAN	White	Bag: 25 lbs. (11.3 kg)

MAPEI's *Ultralite* family: Light in weight... Long on coverage

- Half the weight yet have the same coverage of traditional 50-lb. (22.7-kg) thin-set mortars
- Outstanding "grab" allows installations of large-format, heavy tile without slip or sag
- Contain recycled content
- Formulated with Easy Glide Technology™, enabling faster, easier installations

Features and benefits of MAPEI's *Ultralite* mortars

ISO 13007 C2ES2P2

	Product Code	Color	Packaging
Canada	1199311CAN 1199211CAN	Gray White	Bag: 25 lbs. (11.3 kg) Bag: 25 lbs. (11.3 kg)

MAPEI Ultralite® S2

Premium, highly deformable, lightweight, gauged-tile mortar with polymer

ANSI A118.4HE, A118.11, A118.15HE and A138.1

- Extended coverage formula for most types and sizes of gauged tiles
- Smooth, creamy consistency with easy-glide troweling
- Superior transfer promotes full coverage for tile panels
- Excellent wet-out characteristics for better bonding
- Extended open time, adjustability and pot life
- Contains recycled material

Reduced-silica options

As OSHA continues enforcement of lower limits for respirable crystalline silica exposure for construction workers, many MAPEI customers are looking for reduced-silica products to help them achieve regulatory compliance. MAPEI offers these *Ultralite* mortars that address the installation need to reduce respirable silica exposure on the jobsite:

- *MAPEI Ultralite Mortar* – No silica added*
- *MAPEI Ultralite Mortar Pro* – No silica added*

** Products with "no silica added" do not contain intentionally added crystalline silica. Trace amounts exist in cement and other ingredients, which will be listed on product Safety Data Sheets (SDSs). Please note that respirable crystalline silica can also be emitted by ingredients such as Portland cement.*

Characteristics of MAPEI's *Ultralite* mortars

	MAPEI Ultralite Mortar	***MAPEI Ultralite Mortar Pro***	***MAPEI Ultralite S2***
	Premium quality	**Professional quality**	**Premium quality**
ANSI standards	A118.4HET, A118.11, A118.15HET, A138.1	A118.4HET, A118.11, A138.1	A118.4HE, A118.11, A118.15HE, A138.1
ISO 13007 classification for cementitious, improved adhesive	C2	C1	C2
ISO 13007 classification for slip resistance	T	T	
ISO 13007 classification for extended open time	E	E	E
ISO 13007 classification for normal deformation of mortar	S1	S1	S2
ISO 13007 classification for normal adhesion to plywood	P1		P2
Non-sag properties	Yes	Yes	No
Nonslump properties	Yes	Yes	No
Exterior commercial facades up to 2 stories	Yes	No	Yes
Open time	30 minutes	30 minutes	30 minutes
Pot life	> 2 hours	> 2 hours	> 4 hours
CO_2 emissions fully-offset	Yes	No	No
Shear and bond strength			
Wall tile	450 to 650 psi (3.10 to 4.48 MPa) at 7 days	300 to 420 psi (2.07 to 2.90 MPa) at 7 days	470 to 600 psi (3.24 to 4.14 MPa) at 7 days
Porcelain tile	400 psi (2.76 MPa) at 28 days	240 to 310 psi (1.66 to 2.14 MPa) at 28 days	400 psi (2.76 MPa) at 28 days
Quarry tile to quarry tile	400 to 600 psi (2.76 to 4.14 MPa) at 28 days	300 to 370 psi (2.07 to 2.55 MPa) at 28 days	350 to 530 psi (2.41 to 3.66 MPa) at 28 days
Quarry tile to plywood	150 to 250 psi (1.03 to 1.72 MPa) at 28 days	150 to 200 psi (1.03 to 1.38 MPa) at 28 days	200 to 350 psi (1.38 to 2.41 MPa) at 28 days
Time before grouting walls	8 to 16 hours	24 hours	24 to 48 hours
Time before grouting floors	24 to 48 hours	24 hours	24 to 48 hours

TOP CONTENDERS IN THE LIGHTWEIGHT DIVISION

Innovations in lightweight technology have changed the face of the construction industry. Evolution in thin-body tiles has significantly reduced the overall dead-load weight of a building without compromising strength and durability.

One of the most notable advances in lightweight wall-tile installations is reduced thickness of thin-body porcelain tiles. Although these tiles continue to increase in format size (up to 3 x 9 ft., or 0.91 x 2.74 m), the tile thickness continues to shrink in dimension, even as low as 1/8" (3 mm).

Typically at half the weight of traditional tiles, thin-body tiles can significantly reduce dead-load weight in new and existing buildings when set with lightweight mortars. Early on, MAPEI recognized that formulating an eco-friendly lightweight mortar was the next step in the evolution of sustainable products to complement thin-profile tiles – thus, the introduction of MAPEI's Ultralite Technology™ in mortars. MAPEI researchers relied on proprietary lightweight filler formulations that maximized weight reduction while improving application characteristics. A thixotropic mortar with MAPEI's Ultralite Technology can easily accommodate large-format, heavy tile and stone in wall applications as well as large-format, thin-body tile in wall and floor applications – all without slipping or sagging.

The innovative family of *Ultralite* mortars is packed with advantages, including Easy Glide Technology™ for fast, easy application and Green Squared certification. Green Squared certification (SCS third-party certified) includes the initial and followup reviews of MAPEI's product manufacturing facilities – responsible raw-material sourcing, the production process and a full life-cycle assessment of the products.

Packaged in 25-lb. (11.3-kg) bags, *Ultralite* mortars are half the weight of traditional large-and-heavy-tile (LHT) mortars, yet provide the same coverage. This lightweight feature not only reduces transportation costs, it also provides an enormous benefit to installers who must carry material around the jobsite – particularly for multi-level buildings.

SUSTAINABLE, CO_2-OFFSET PRODUCTS

MAPEI promotes the total offsetting of residual CO_2 emissions during the life cycle of products by acquiring certified environmental credits to support the implementation of renewable energy projects.

Since 2012 MAPEI Group has offset over 80,000 tons of CO_2 associated with the manufacturing of numerous products by acquiring certified environmental credits. Now, in 2023, CO_2 emissions offset comes to North America.

CO_2 emissions measured throughout the life cycle of products from the Zero line in 2023, using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of third-party-certified carbon credits in support of renewable energy and forestry protection projects. A commitment to the planet, to people and to biodiversity.

CO_2 FULLY OFFSET IN THE ENTIRE LIFE CYCLE ZERO

Scan to learn more.

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