Simplifying the installation challenges of large-format thin tiles

MAPEI Ultralite™ S2

Premium, Highly Deformable, Lightweight Thin-Tile Mortar with Polymer

www.mapei.com

MAPEI®

ADHESIVES · SEALANTS · CHEMICAL PRODUCTS FOR BUILDING

Designing the perfect fit between thin tile and substrate

At the request of American tile associations, the MAPEI Research & Development labs extensively tested methods for successfully installing large thin tiles. These methods are communicated in MAPEI's Reference Guides for installing wall tiles 1/8" to 1/4" (3 to 6 mm) thick and floor tiles 3/16" to 1/4" (4,5 to 6 mm) thick.

As a result of continued work in this field, MAPEI has now developed a mortar that addresses the performance challenge in bonding large thin tile with a substrate. ***MAPEI Ultralite™ S2*** allows architects the freedom to design dramatically with large thin tiles without worrying about the durability of the installation process.

MEETING THE CHALLENGES

Though thin tiles are lighter in weight than standard porcelain tiles, the large sizes of some of these tiles can make them very heavy to lift and difficult to place. *MAPEI Ultralite S2*'s unique Ultralite Technology™ provides twice the coverage of a standard thin-set mortar, resulting in a significant reduction in the weight of the tile being applied to a wall or as exterior cladding.

Total coverage is critical under large thin tiles in order to avoid cracks and chips, especially around the edges. *MAPEI Ultralite S2* has superior wetting-out properties that help it transfer to both tile and substrate, increasing the bond to each and giving the greatest possible coverage.

The extended open time of *MAPEI Ultralite S2* allows installers to trowel the mortar onto the substrate and to back-butter the tile without loss of bond due to drying out.

When dealing with tiles that may be as large as 5 by 10 ft. (1,52 by 3,05 m), the installer can appreciate how extra time significantly enhances the ease of application.

MAPEI Ultralite S2 also utilizes MAPEI's Easy Glide Technology™, designed so that the trowel ridges collapse. This contributes to ease of application across the extensive surface of the tile, making the mortar easier to apply and increasing transfer.

One of the most important challenges for architects designing with large thin tiles is the contraction and expansion that occurs in the exterior of buildings exposed to heat, cold, sun, rain and other climatic conditions. *MAPEI Ultralite S2* is highly deformable (classified by ISO 13007 standards as an S2 mortar), easily accommodating substrate movement under extreme conditions.

When installers follow the recommendations in the MAPEI Reference Guides and use *MAPEI Ultralite S2* mortar, the architect's vision for large thin tile can be realized as a successful project.