



# Ultraplan<sup>®</sup> QuickTraffic<sup>®</sup>

**Extremely Fast-Setting, Self-Leveling Underlayment**



## DESCRIPTION

*Ultraplan QuickTraffic* is an extremely fast-setting, high-flow, calcium-aluminate-cement-based underlayment designed for rapid subfloor preparation. Easily mixed and poured, *Ultraplan QuickTraffic* is suitable for all types of floor-covering installations in as soon as 1 to 3 hours after placement.

## FEATURES AND BENEFITS

- Ultra fast setting time for rapid floor-covering installation and project turnaround
- High compression strength capable of withstanding heavy traffic and rolling loads
- Excellent flow properties for a smooth, defect-free, hard surface

## INDUSTRY STANDARDS AND APPROVALS

- Meets ASTM F710, "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring"

LEED v3 Points Contribution

LEED Points

MR Credit 5, Regional Materials\* ..... Up to 2 points

*\* Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.*

## WHERE TO USE

- For leveling, smoothing and repairing floors before installation of flooring systems and coverings

- Interior residential applications (rental apartments, condominiums and homes)
- Interior commercial applications (office buildings, hotel rooms/hallways, restaurants and cafeterias)
- Interior heavy commercial applications (hotel lobbies, convention centers, airports, shopping malls, grocery stores and department stores)
- Interior institutional applications (hospitals, schools, universities, libraries and government buildings)

## LIMITATIONS

- Do not install over any flooring products, adhesives or substrates containing asbestos.
- For interior use only
- Do not use at thicknesses greater than 1/2" (12 mm).
- Install *Ultraplan QuickTraffic* in temperatures between 50°F and 90°F (10°C and 32°C). For temperatures above 90°F (32°C), follow American Concrete Institute (ACI) hot-weather application guidelines to ensure a successful installation.
- Do not install over moving control joints (with active cracks) or over expansion joints.
- Do not install if the substrate has a moisture vapor emission rate (MVER) exceeding 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours using a calcium chloride test (reference ASTM F1869), or a relative humidity (RH) reading greater than 80% (ASTM F2170). Use a MAPEI epoxy moisture barrier to treat concrete slabs with elevated moisture



conditions. Consult MAPEI's Technical Services Department for product recommendations.

- Do not install *Ultraplan QuickTraffic* over sheet vinyl; self-stick vinyl tile; luxury vinyl tile (LVT); luxury vinyl plank (LVP); glue-down wood flooring; particleboard; hardboard (Masonite); Luan panels; waterproofing, crack-isolation or sound-control membranes; gypsum-based patching materials; or any other nondimensionally stable materials.
- Do not install if the maximum allowable deflection of the supporting surface exceeds L/360 (or L/720 for installations involving natural stone or their agglomerates) when exposed to live or dead loads.

## SUITABLE SUBSTRATES

- All substrates must be primed with the appropriate MAPEI primer before applying self-levelers. See MAPEI's Product Selection Guide RGC0609, "Primers for Self-Leveling Materials," and the appropriate primer's Technical Data Sheet.
- Properly prepared, sound, dimensionally stable, fully cured concrete at least 28 days old and free from hydrostatic pressure
- Durable, sound, stable and fully cured cement-based mortar beds

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

- All substrates must be properly prepared, primed and structurally sound, stable, solid and dry.
- Concrete surfaces must be mechanically profiled and prepared by shotblasting, sandblasting, water-jetting, scarifying, diamond grinding or other engineer-approved methods. Reference International Concrete Repair Institute (ICRI) concrete surface profile (CSP) standards of #3 for acceptable profile height.
- On concrete substrates, fill in deep areas, holes and cracks with an appropriate MAPEI patching compound or screed. Fluid self-leveler may leak through to a floor below or other unwanted cavities.

See MAPEI's "Surface-Preparation Requirements for Self-Leveling Underlayments" document in the Reference & Installation Guides section of the Floor Covering Installations Systems page on MAPEI's Website.

## MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

1. Measure and pour 6 to 6.3 U.S. qts. (5,67 to 5,96 L) of water per 50 lbs. (22,7 kg) of *Ultraplan QuickTraffic* into a clean mixing vessel, using a mixing barrel or a plastic pail measuring 5 U.S. gals. (18,9 L). For best results, the water temperature should be about room

temperature (73°F [23°C]). The mixing ratio of water to *Ultraplan QuickTraffic* must remain consistent. Do not overwater.

2. Slowly add the *Ultraplan QuickTraffic* powder into the pre-measured water. Use a high-speed drill (at 800 to 1,100 rpm) and an oval paddle mixer to mix *Ultraplan QuickTraffic* for 2 to 3 minutes, achieving a homogenous, lump-free consistency.
3. Do not overmix. Overmixing or moving the mixer up and down during the mixing process could trap air, shorten the pot life or cause pinholing during the application and curing process.
4. Caution: *Ultraplan QuickTraffic* generates heat once mixed. Do not allow mixed product to remain in mixing vessel for more than 5 to 10 minutes.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Substrate and ambient room temperatures should be maintained between 50°F and 90°F (10°C and 32°C) during the installation as well as for 72 hours before and after.
2. Before installation, close doors and windows, and turn off HVAC systems to prevent drafts during application and until *Ultraplan QuickTraffic* is cured. Protect installation areas from direct sunlight.
3. Quickly pour *Ultraplan QuickTraffic* onto the properly prepared and primed surface in a ribbon pattern. Set the width of the pour at a distance that is ideal for maintaining a wet edge throughout placement. If a wet edge cannot be maintained, reduce the width of the pour. For best results, work as a team to provide a continuous flow of wet material, to avoid trapping air or creating a cold joint. Apply enough material to adequately cover all high spots.
4. Shortly after placing *Ultraplan QuickTraffic*, spread the material with a gauge rake. After achieving the desired depth, use a smoother to obtain an even surface.
5. *Ultraplan QuickTraffic* cannot be extended for deeper fills. For deep fills, select an alternate MAPEI self-leveling underlayment.

## CURING

- *Ultraplan QuickTraffic* is self-curing; do not use a damp-curing method or curing-and-sealing compounds.
- Cool-weather conditions may extend cure or set times. Warm-weather conditions may accelerate flow, set and curing times.

## CLEANUP

- Wash hands and tools with water promptly before the material hardens. Cured material must be mechanically removed.

## Product Performance Properties

Laboratory Tests	Results
pH	11
Cured density	128 lbs. per cu. ft. (2 060 kg per m <sup>3</sup> )
Compressive strength – ASTM C349	
1 day	> 4,000 psi (27,6 MPa)
7 days	> 5,800 psi (40 MPa)
28 days	> 7,250 psi (50 MPa)
Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C)	
28 days	> 1,500 psi (10,3 MPa)

## Shelf Life and Product Characteristics (before mixing)

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C) and 50% RH
Physical state	Powder
Color	Gray
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

## Application Properties at 73°F (23°C) and 50% relative humidity

Mixing ratio	6 to 6.3 U.S. qts. (5,67 to 5,96 L) of water per 50-lb. (22,7-kg) bag
Mixing time	1 to 2 minutes
Profile required	CSP #3
Temperature range for application	50°F to 90°F (10°C to 32°C)
Working time*	Up to 15 minutes
Thickness range for single-lift application	1/8" to 1/2" (3 to 12 mm)
Drying time before installation of non-moisture-sensitive floor coverings at 73°F (23°C)	1 hour
Drying time before installation of moisture-sensitive floor coverings at 73°F (23°C)	3 hours

\* Working time varies based on jobsite conditions.

## CSI Division Classification

Cast Underlayment	03 54 00
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## Packaging

Size
Plastic bag: 50 lbs. (22,7 kg)

## Approximate Coverage\*\* per 50 lbs. (22,7 kg)

Thickness	Coverage
1/8" (3 mm)	48 sq. ft. (4,46 m <sup>2</sup> )
1/4" (6 mm)	24 sq. ft. (2,23 m <sup>2</sup> )
1/2" (12 mm)	12 sq. ft. (1,11 m <sup>2</sup> )

\*\* Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied and application methods used.

# Ultraplan<sup>®</sup> QuickTraffic



## PROTECTION

- Protect *Ultraplan QuickTraffic* from direct sunlight, excessive heat and drafty conditions during curing. Turn off all forced ventilation and radiant-heating systems, and protect the installation for up to 24 hours after completion.
- Avoid walking on the installed surface for at least 1 hour after installation, depending upon temperature and humidity conditions.
- Protect the installation from traffic, dirt and dust from other trades until *Ultraplan QuickTraffic* is completely dry and final flooring has been installed.
- Do not expose *Ultraplan QuickTraffic* to rolling dynamic loads, such as fork lifts or scissor lifts, for at least 12 hours after installation.

## RELATED DOCUMENTS

Reference Guide: Primers for Self-Leveling Materials	RGC0609*
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\* At [www.mapei.com](http://www.mapei.com)

Refer to the SDS for specific data related to health and safety as well as product handling.

## STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

**ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

We proudly support the following industry organizations:



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### Technical Services

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### Services in Mexico

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

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For the most current **BEST-BACKED™** product data and warranty information, visit [www.mapei.com](http://www.mapei.com).

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