

Ultraplan[®] HFL

High-Flow, Fast-Setting, Self-Leveling Underlayment

DESCRIPTION

Ultraplan HFL is a high-flow, high-compression-strength, calcium-aluminate-cement-based, self-leveling underlayment. Its unique flow properties allow for easy placement and a super-flat finished surface with minimal effort. *Ultraplan HFL*'s fast setting time allows for floor-covering installation within 3 hours of placement.

FEATURES AND BENEFITS

- High-flow characteristics
- High compression strength
- Fast-setting

For more information, contact your MAPEI representative or visit www.mapei.com.





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PRODUCT PERFORMANCE PROPERTIES

Laboratory Tests	Results
Compressive strength – ASTM C349)	
1 day	> 3,000 psi (20.7 MPa)
28 days	> 6,000 psi (41.4 MPa)
pH	11
VOC content	0 g per L
Cured density	124 lbs. per cu. ft. (2.00 kg per L)
Flexural strength – ASTM C348 (modified)	
28 days	≈ 1,085 psi (7.48 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% relative humidity
Physical state	Powder
Color	Gray

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 6.25 U.S. qts. (5.68 to 5.91 L) of water per 50 lbs. (22.7 kg) of powder
Mixing time	2 to 3 minutes
Profile required	Concrete surface profile (CSP) of #2 to #3
Application temperature range	50°F to 90°F (10°C to 32°C)
Working time	Up to 15 minutes
Single-lift application range	1/16" to 1" (1.5 mm to 2.5 cm)
Minimum thickness over highest point in floor	1/16" (1.5 mm)
Maximum thickness	1" (2.5 cm)
Waiting time for secondary applications of self-leveling underlayment	24 hours
Drying time before installation of tile/stone flooring and high-moisture-resistant adhesives at 73°F (23°C)	3 hours
Drying time before installation of moisture-sensitive flooring at 73°F (23°C)	12 hours

PACKAGING

Size	Plastic bag: 50 lbs. (22.7 kg)
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APPROXIMATE COVERAGE*

per 50 lbs. (22.7 kg)

Thickness	Coverage
1/16" (1.5 mm)	104 sq. ft. (9.66 m ²)
1/8" (3 mm)	52 sq. ft. (4.83 m ²)
1/4" (6 mm)	26 sq. ft. (2.42 m ²)
1/2" (12 mm)	13 sq. ft. (1.21 m ²)
1" (2.5 cm)	6.5 sq. ft. (0.60 m ²)

* 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.

