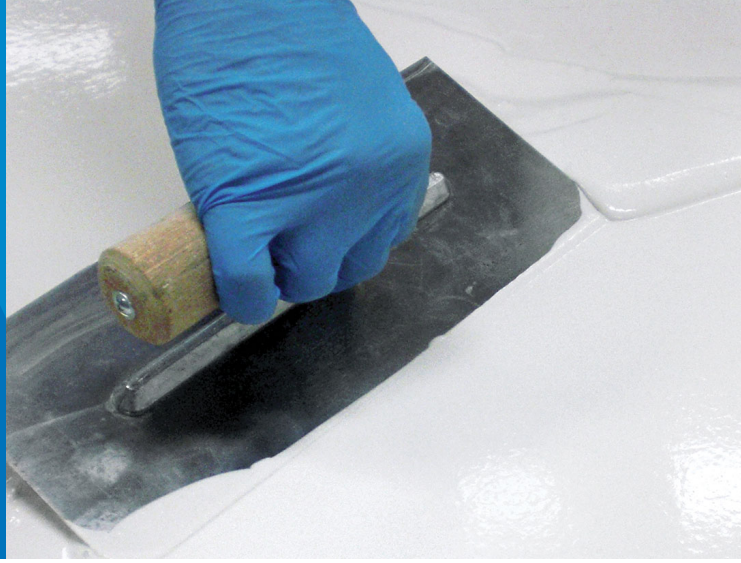
Ultratop Loft W [NA]

Fine-Textured, Cement-Based Micro-Topping



NORTH AMERICA [NA]

DESCRIPTION

Ultratop® *Loft W* [NA] is a one-component, cement-based decorative topping that is troweled and applied in two layers 1/16" (1.5 mm) in thickness. It is specially formulated for abrasion resistance in designing non-uniform and non-homogeneous finishes with a broad range of finishing effects on indoor decorative surfaces. *Ultratop Loft W* [NA] can be used on a wide variety of substrates and combines excellent versatility with easy application.

FEATURES AND BENEFITS

- Available in white or natural color, and can be colored with *Ultratop Easycolor* [NA]
- Easy to mix with clean water or *Ultratop Easycolor* [NA] for a broad range of hues
- Easy to apply with a flat-edge metal trowel
- One-component, cement-based micro-topping for a wide variety of substrates
- Trowel-applied in two thin layers for faster installation
- Specially formulated for new floors and walls; suitable for refurbishing old floors and walls
- Hardens within 6 to 8 hours and is ready to accept sealers or coatings within 24 hours
- Can be used in interior, occupied environments

WHERE TO USE

Ultratop Loft W [NA] was developed to provide durable yet visually pleasing horizontal and vertical surfaces for residential and commercial spaces.

- Especially desirable for large public venues subject to heavy foot traffic such as hotels, museums, theaters and exhibition halls

- For interior applications only
- Used with *Ultratop Easycolor* [NA] to provide a broad range of aesthetic surface effects for every need

Consult MAPEI's Technical Services Department for Concrete Restoration Systems (CRS) for installation recommendations regarding conditions not listed.

SURFACE PREPARATION

- All substrates must be structurally sound, stable, dry, clean, and free of any substance or condition that may reduce or prevent proper adhesion.
- Mechanically prepare and clean all surfaces of any substance that could interfere with the bond of the installation material, including paint, asphalt, wax, oil, sealers, curing compounds, and poorly bonded or incompatible adhesive. Do not use acid as a surface-preparation method.
- Because *Ultratop Loft* system is 1/16" (1.5 mm) thick overall, the levelness of the substrate must fulfill high demands. Consult MAPEI's CRS Technical Services Department for recommendations regarding filling compounds if needed.

Horizontal surfaces

- Mechanically profile and prepare concrete surfaces by engineer-approved methods in accordance with the most current ICRI 310.2R guidelines to obtain a concrete surface profile (CSP) of #2 to #3.
- On flooring applications, always prime the prepared surface with MAPEI's *Primer SN*™ [NA], applying it with a squeegee and then back-rolling to ensure a uniform application at a thickness of 9 to 12 wet mils. While *Primer SN* [NA] is still wet, follow immediately with a full sand broadcast (to rejection) with #20 to #40 mesh sand. After *Primer SN* [NA] has cured for at least 16 hours, use a mechanical sander and vacuum up the excess sand. Alternative primers such as MAPEI's fast-setting *Primer SN Fast* can be used in accordance with their Technical Data Sheets.
- All existing construction, control and expansion joints must be honored up through the micro-topping system by installing a suitable joint filler in control joints or a suitable sealant in isolation joints. Saw cuts and all moving cracks must be repaired with suitable epoxy injection material. *Ultratop Loft W* [NA] must not be installed over any joints or any cracks if they are not properly honored or repaired. If not, the control joint or any cracks will cause the *Ultratop Loft* system to show cracks or patterns reflective after *Ultratop Loft W* [NA] has been installed.
- Damaged concrete slabs can also be prepared with *Primer SN* [NA] reinforced with MAPEI's *Mapenet*™ *150* [NA] glass fiber mesh and fully sand-broadcast (to rejection) with #20 to #40 mesh sand. If *Primer SN* [NA] reinforced with *Mapenet 150* [NA] is used, all existing construction, control and expansion joints must be honored as well.
- If the installation is on a ceramic floor, use *Primer SN* [NA] reinforced with *Mapenet 150* [NA] and fully sand-broadcast (to rejection) with #20 to #40 mesh sand. Ceramic floors must be structurally sound, stable and bonded to the slab. Do not acid-etch tiles before applying *Primer SN* [NA], and shotblast the ceramic floor to properly prepare the tiles for the primer.
- MAPEI cannot be responsible for problems that arise from existing cracks, new cracks or joints that may develop after *Ultratop Loft W* [NA] has been installed.

Vertical surfaces and ceilings

- Non-absorbent vertical surfaces such as existing ceramics and difficult-to-bond-to substrates must be primed with MAPEI's *Primer LT*™ [NA]. *Ultratop Loft W* [NA] can be applied once *Primer LT* [NA] is dry. The minimum waiting time is 60 minutes, depending upon the surrounding conditions and substrate porosity.
- MAPEI cannot be responsible for problems that arise from existing cracks, new cracks or joints that may develop after *Ultratop Loft W* [NA] has been installed.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Before use, stir the product to ensure that settling has not occurred during shipment or storage.
- Based on the high yield of the mixed product, it is recommended to mix *Ultratop Loft W* [NA] in separate 11-lb. (5-kg) batches.

Mixing with water

1. Into a clean mixing container, pour the required amount of cool, clean, potable water.
2. Add *Ultratop Loft W* [NA] powder while slowly stirring. Mix water and *Ultratop Loft W* [NA] powder with 32% to 35% by weight of clean water.
3. Mix with a low-speed mixing drill (at 300 to 450 rpm) and a helix-style mixing paddle.
4. The mixing ratio must remain consistent.

Mixing with *Ultratop Easycolor* [NA]

Ultratop Easycolor [NA] is a one-component, concentrated liquid pigment specially formulated to color *Ultratop Loft W* [NA] and *Ultratop Loft F* [NA]. A 3.3-lb. (1.5-L) unit of *Ultratop Easycolor* [NA] is formulated to color the powder in a 11-lb. (5-kg) bag of *Ultratop Loft W* [NA].

1. Into a clean mixing container, pour one unit of *Ultratop Easycolor* [NA] for every 11 lbs. [5 kg] of *Ultratop Loft W* [NA].
2. Add *Ultratop Loft W* [NA] powder while slowly stirring. Mix *Ultratop Easycolor* [NA] and *Ultratop Loft W* [NA] powder with a low-speed mixing drill (at 300 to 450 rpm) and a helix-style mixing paddle.
3. Clean water at a rate of up to 4% by weight may also be added to the mix, based on the workability needed for the contractor's installation technique.
4. If water is added to the mix, the water percentage ratio must remain consistent.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Before installation, prevent drafts by closing all doors and windows and turning off HVAC systems. Protect installation areas from direct sunlight.
2. Make sure that the substrate and ambient room temperatures are between 40°F and 95°F (4°C and 35°C) before application. Temperatures must be maintained within this range for at least 48 hours after the installation of the *Ultratop Loft* system.
3. For horizontal application, test the concrete substrate using a calcium chloride test (ASTM F1869) to ensure that the moisture vapor emissions rate (MVER) is below 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m^2) per 24 hours.
4. For best results, work as a team to provide a continuous troweled application of wet material to achieve the desired range of aesthetic surface effects.
5. *Ultratop Loft W* [NA] remains workable for about 20 minutes at 50°F to 95°F (10°C to 35°C). Lower temperatures lead to longer processing times, and higher temperatures lead to shorter processing times.
6. Use a trowel to apply one or more coats of *Ultratop Loft W* [NA], scratching it to a thin layer on the surface. The total thickness should be 1/16" (1.5 mm).
7. Move the trowel in short, irregular movements in order to achieve the required pattern.
8. Sand the surface of *Ultratop Loft W* [NA] between each coat. We recommend using a single-head sanding machine for this operation with 80- to 200-grit sandpaper, depending on the level of finish required. Each

coat must be completely dry before sanding.

9. Apply a single coat of *Primer LT* [NA] with a 3/8" (10 mm) nap roller between layers of *Ultratop Loft W* [NA]. Ensure that the surface receives a complete, thin film of *Primer LT* [NA].
10. After applying the final coat, which may also be done using *Ultratop Loft F* [NA], properly seal *Ultratop Loft W* [NA].
11. Before applying the sealer, a single layer of MAPEI's *Ultratop Base Coat* [NA] must be applied in order to ensure the proper bonding of the sealer.
12. Within 24 hours, a suitable MAPEI sealer can be used, selected on the basis of the project request in order to achieve the desired finish:
    - *Mapefloor™ Finish 58 W* [NA] for a two-component, clear, matte, aliphatic polyurethane coating
    - *Mapefloor Finish 630* [NA] for a two-component, clear protective acrylic coating

CLEANUP

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

LIMITATIONS

- Installing any cement-based micro-topping requires a high degree of experience and craftsmanship. Consider this product to be for professional use only. Contact MAPEI's CRS Technical Services Department for preferred installers.
- Do not bridge unrepaired cracks or expansion, isolation or control joints. Cement-based micro-topping products such as *Ultratop Loft W* [NA] may not be capable of restraining movement from the substrate, and reflective cracks may appear due to vibration or substrate flexure.
- *Ultratop Loft W* [NA] is not warranted without the use of *Primer SN* [NA] or *Primer SN Fast* with a properly graded sand broadcast.
- Do not use for installations subject to water immersion, such as pools.
- Do not install over any substrates containing asbestos.
- Do not install over wood floors, linoleum or lightweight underlayment subfloors.
- *Ultratop Loft W* [NA] must be sealed for stain protection. The MAPEI sealer can be selected based on the project request in order to achieve the desired finish.

Product Performance Properties

Laboratory Tests	Results
Compressive strength, air-cure only – ASTM C109 mod.	
24 hours	> 1,160 psi (8 MPa)
7 days	> 2,610 psi (18 MPa)
28 days	> 4,000 psi (27.6 MPa)
Flexural strength – ASTM C348	
24 hours	> 725 psi (5 MPa)
7 days	> 1,305 psi (9 MPa)
28 days	> 1,740 psi (12 MPa)

Abrasion resistance (tested with a sealed system) – ASTM D4060	
28 days	< 0.5 g
Density	About 1.65 g per mL

Shelf Life and Product Characteristics

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Mixing ratio	*Ultratop Loft W* [NA] powder with 32% to 35% by weight of clean water
Consistency	Powder
Colors	White or natural base powder; can be colored with *Ultratop Easycolor* [NA]

Application Properties

Window for application at 40°F to 95°F (5°C to 35°C)	About 20 minutes
Application temperature range	40°F to 95°F (4°C to 35°C)
Setting time	About 60 to 100 minutes
Ready for foot traffic	4 to 6 hours
Waiting time before recoating	6 hours
Waiting time before applying finishing coat	6 to 24 hours

Packaging

Size and Color
Bag: 11 lbs. (5 kg), white
Bag: 11 lbs. (5 kg), natural
Bag: 44 lbs. (20 kg), white
Bag: 44 lbs. (20 kg), natural

Approximate Coverage*

Size	Coverage
Per 11-lb. (5-kg) bag	55 to 63 sq. ft. at 1/16" (5.11 to 5.85 m^2 at 1.5 mm)
Per 44-lb. (20-kg) bag	220 to 252 sq. ft. at 1/16" (20.4 to 23.4 m^2 at 1.5 mm)

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

ADDITIONAL INFORMATION

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

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA).

WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

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