ULTRATOP LOFT W

One-component trowellable fine-textured cementitious paste applied in layers up to 2 mm thick to create decorative floors and walls with a trowelled or mottled effect







CE EN 13813

CT C25-F10 A9-A2fl-s1 A2-s1-d0 EN 13813

DESCRIPTION

Ultratop Loft W is the ideal coating product to create decorative internal floors and walls with a pronounced textured effect.

The consistency of the product, the limited thickness of the coat applied and the possibility of applying it on vertical surfaces combining it with a wide range of colours, offers limitless creative possibilities for producing unique coatings.

TECHNICAL CHARACTERISTICS

Ultratop Loft W is a powdered formulate made from special rapid-setting and hydrating binders, graded silica sand, synthetic resin and special additives according to a formulation developed in the MAPEI R&D laboratories.

Once mixed, with either water or directly with **Ultratop Easycolor** pigment, it forms a trowellable paste that is easy to apply by hand with a smooth rubber, Teflon or steel trowel.

Also, due to the creamy consistency of the product, highly original decorative finishes may be obtained, such as classic trowelled or mottled effects, in a multitude of colour shades.

Once hardened **Ultratop Loft W** has good resistance to abrasion.

Ultratop Loft W complies with the requirements according to EN 13813 “Screed material and floor screeds - Screed material - Properties and requirements”, which defines the requirements to be applied to materials for screeds used in the construction of indoor floors.

BENEFITS AND FEATURES

- Easy to prepare: may be mixed with water only and, if required, coloured by adding specific pre-dispersed pigment **Ultratop Easycolor**.
- Easy to apply with a trowel and dries rapidly.
- Versatile: may be used for both new floors and to refurbish existing floors.
- May be applied on both horizontal and vertical surfaces.

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- Suitable for use in both commercial and residential surroundings.
- Coated surfaces may be put into service quickly.
- Sustainability: it can contribute to LEED credits. EPD (Environmental Product Declaration) compliant.
- Low VOC emission (CDPH standard).

WHERE TO USE

Thanks to its ease of use, versatility and abrasion resistance, **Ultratop Loft W** is ideal for creating floors subjected to intense pedestrian traffic, as well as wall coverings, and is suitable for all areas of interior design and decoration within the civil building sector.

- Creating decorative floors in shops.
- Creating decorative floors in residential environments.
- Creating decorative coatings for floors, walls and ceilings with a trowelled effect finish.
- Creating decorative floors and walls in bars, cafés and restaurants.
- Creating decorative floors in hotel lobbies and showrooms.
- For all areas in the civil building sector where a smooth or textured trowelled effect coating with a cementitious matrix is required.

RECOMMENDATIONS

- Do not apply **Ultratop Loft W** on dusty or crumbling surfaces or on surfaces with oil or grease stains;
- Do not add lime, cement, gypsum or other binders to **Ultratop Loft W**.
- Do not apply **Ultratop Loft W** on substrates with capillary rising damp (contact MAPEI Technical Services).
- Do not apply **Ultratop Loft W** if the temperature is lower than +5°C or higher than +35°C.
- Do not apply **Ultratop Loft W** on exterior surfaces.
- Only use **Ultratop Easycolor** to pigment **Ultratop Loft W**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be dry, solid and free of dust, loose and detached parts, paint, wax, oil, rust and any other substance which may affect adhesion.

It is very important that the surface is prepared as specified to guarantee the correct application and the best performance of **Ultratop Loft W**.

The most suitable method for preparing the surface is by grinding with a diamond disk and then removing all the dust with a vacuum cleaner. Do not use chemical preparation methods, such as acid rinsing, or aggressive percussion tools; they may damage the substrate.

Any defects present in the surface, such as holes, pitting, cracking, etc., must be repaired with **Primer SN**, fillerized with quartz sand or made thixotropic with **Additix PE**, or **Mapefloor JA** or **Mapefloor JA Fast** depending on the width and depth of the defects or cracks.

If deep hollows or highly deteriorated areas are present on the substrate, repair these areas using **Mapefloor EP19**, three-component epoxy mortar.
Integrate badly damaged joints using the same product.

If any of the above guidelines are not strictly adhered to, the quality of the final surface may be poor.

Priming the substrate

Horizontal surfaces

Once the substrate has been prepared as specified, prime horizontal concrete and/or ceramic surfaces with **Primer SN** reinforced, where required, with **Mapenet 150** (glass fibre mesh) and fully broadcast with **Quartz 0.5**.

Prepare **Primer SN** by pouring component B into component A and blend together with a drill fitted with a spiral mixing attachment at low-speed to form a smooth, even paste. While mixing, add around 20% by weight of **Quartz 0.5** to the mix as soon as it has been prepared and mix again for several minutes to form a smooth, even compound.

Pour the product on the surface of the floor to be coated and spread it out evenly and uniformly using either a smooth trowel or a smooth rake. While the product is still wet, fully broadcast the surface with **Quartz 0.5**.

Once the **Primer SN** has hardened, remove any excess sand with an industrial grade vacuum cleaner.

Vertical surfaces

Non-absorbent vertical surfaces (ceramic, porcelain, etc.), must be treated beforehand by applying a coat of **Primer Grip White** with a brush or roller. Leave the primer to dry before applying **Ultratop Loft W**, depending on the surrounding site conditions and the absorbency of the substrate.

Absorbent vertical surfaces, on the other hand (concrete, renders, skim coats and plaster-board walls), must be treated with a coat of **Primer LT**, a specific acrylic resin-based primer, diluted 1:1 or 1:2 by weight with water, depending on the absorbency of the substrate. Leave the primer to dry, depending on the surrounding conditions and absorbency of the substrate, before applying **Ultratop Loft W**.

Preparation of the product

Ultratop Loft W may be prepared as is in its basic “white” and/or “natural” colour by adding water only. Mix the product in a suitable container with 32-35% by weight of clean water with an electric mixer at low-speed until it forms a smooth, lump-free paste.

It is recommended to prepare **Ultratop Loft W** in separate 5 kg quantities, because of the high yield of the mixed product.

If, on the other hand, a coloured coating is required, **Ultratop Loft W** may be mixed directly in a clean container large enough for the amount required by adding **Ultratop Easycolor** pre-dispersed pigment only and no water in the following dosage: one 1.5 litre can of **Ultratop Easycolor** every 5 kg of **Ultratop Loft W** (refer to the **Ultratop Easycolor** colour range to see the colour shades available). Please note: clean water at a rate of up to 4% by weight of the cementitious formulate may also be added to the mix, depending on site conditions and the consistency required. Mix the paste with an electric mixer at low-speed to form an evenly coloured, lump-free mix.

The advantage of this system is that it is more practical, very easy to use and allows the two base colours of **Ultratop Loft W** (white and natural), to be pigmented very simply and consistently in an infinite range of shades.

Application of the product

Apply two or more coats of **Ultratop Loft W** with a smooth rubber or Teflon-coated trowel scratching to zero thickness until the effect required is obtained.

In order to form a smooth, uniform surface, that still leaves signs of the product made by the trowelling motion still visible on the hardened surface, sand the surface of **Ultratop Loft W** between each coat and then again after applying the final coat. Each coat must be completely dry before sanding.

We recommend using a single-head sander for this operation with 80 to 200 grit sandpaper, depending on the level of finish required. Thoroughly vacuum all the dust produced.

Priming between layers

Apply **Primer LT** as an adhesion promoter between the layers of **Ultratop Loft**, using a roller or a brush after preparing it by diluting with water at a ratio of 1:1 by weight. After the drying of **Primer LT** (please refer to the relevant Technical Data Sheet for timing), proceed with the application of the subsequent layer of **Ultratop Loft W**.

Finish

6-24 hours after applying the final coat of **Ultratop Loft W** (which must be completely dry), the surface must be protected and made non-absorbent by applying an undercoat of **Ultratop Base Coat** followed by a finishing

product from the **Mapefloor Finish** range.

The most suitable finishing product must be chosen according to the effect or level of wear-resistance required. Please contact MAPEI Technical Services Department for more information.

In areas exposed to continuous or prolonged spills of water or liquids in general, protect the surface with a glossy, aliphatic polyurethane finish **Mapefloor Finish 50 N**, to be applied without a prior base coat of **Ultratop Base Coat**. If a satin or matt finish is desired, apply an additional layer of finishing product from the **Mapefloor Finish** range after the polyurethane **Mapefloor Finish 50 N** has hardened. Choose the specific **Mapefloor Finish** formulate according to the desired aesthetic.

Note that if **Mapefloor Finish 50 N** is used as the final coat, the colour of the **Ultratop Loft** coating may vary.

CLEANING

Remove **Ultratop Loft W** from tools with water while still wet.

CONSUMPTION

0.3 – 0.5 kg/m^2 per coat.

PACKAGING

Ultratop Loft W is available in 20 kg bags and in boxes containing 4 x 5 kg Alupacks.

STORAGE

20 kg bags: 12 months in original sealed packaging, in a dry covered area.

5 kg Alupack bags: 24 months in original sealed packaging, in a dry covered area.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	white or natural
Bulk density:	900 kg/m^3
Dry solids content:	100 %

APPLICATION DATA (at +23°C - 50% R.H.)

Mixing ratio:	approx. 32-35 parts of water per 100 parts by weight of **Ultratop Loft W**
Density of mix:	1,600 kg/m³
pH of mix:	11
Application temperature:	+5°C to +35°C
Workability time:	20 mins.
Setting time:	80 mins.
Set to foot traffic:	3 hours
Recoat time:	6 hours
Waiting time before applying finishing coat:	6 to 24 hours

FINAL PERFORMANCE DATA at 23°C and 50% R.H.				
Taber abrasion resistance expressed as loss in weight in grams (H22 wheel - 500 g - 200 revs):	ASTM D4060		7 days 28 days	0.7 g 0.5 g
Compressive strength:	EN 13892-2	5 < N/mm² < 80	24 h 7 days	8 N/mm² 18 N/mm²
Flexural strength:	EN 13892-2	1 < N/mm² < 50	24 h 7 days	5 N/mm² 9 N/mm²
Castor chair test (type W, 25,000 cycles):	EN 425		Delamination: no Cracking: no	

ESSENTIAL CHARACTERISTICS	Test method	Requirements according to EN 13813 for cementitious screeds	Typical values
Compressive strength:	EN 13892-2	from C5 to C80	C25
Flexural strength:	EN 13892-2	from F5 to F50	F10
Böhme abrasion resistance:	EN 13892-3	from A 1.5 to A22	A9
Reaction to fire:	EN 13501-1	Value declared by producer	$A2_{FL}$-s1 A2-s1-d0

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

TECHNICAL SPECIFICATIONS

Supply and installation of two or more layers of one-component, trowellable, fine-textured cementitious paste with excellent abrasion resistance (such as **Ultratop Loft W** by MAPEI S.p.A.) for creating decorative flooring and wall coverings for indoor environments, up to 2 mm thick, with a pronounced textured effect. During the preparation of the product, if required, it is also possible to pigment and prepare the cementitious formulate using a special pre-dispersed pigment (such as **Ultratop Easycolor** by MAPEI S.p.A.), which will be mixed with the powder product without adding water. To achieve a specific textured effect on the surface, it will be necessary to sand the hardened layers with specific abrasive papers (grain size 80 to 200), ensuring the complete removal of the produced dust through vacuuming. After sanding and before applying the next layer of cementitious formulate, it is essential to use a specific acrylic-based adhesion promoter, pre-diluted with water at a ratio of 1:1 by weight (such as **Primer LT** by MAPEI S.p.A.). Priming of horizontal substrates, following the mechanical preparation, will be carried out using a specific two-component, fillerized, epoxy resin formulate (such as **Primer SN** by MAPEI S.p.A.), which will be broadcast in excess with quartz sand (such as **Quartz 0.5** by MAPEI S.p.A.). For mixed substrates, it will also be necessary to embed a special alkali-resistant fiberglass mesh into the primer (such as **Mapenet 150** by MAPEI S.p.A.). Non-absorbent vertical surfaces will be primed using a universal adhesion promoter with very low VOC emissions (CDPH standard), based on water-dispersed synthetic resins and silica-based fillers (such as **Primer Grip White** by MAPEI S.p.A.), to be applied by brush or roller. Absorbent vertical surfaces must be treated with a coat of a specific acrylic-based primer, pre-diluted with water at a ratio of 1:1 or 1:2 by weight (such as **Primer LT** by MAPEI S.p.A.). The surface protection of the treated areas will be carried out with a first coat of a one-component, clear, water-based acrylic primer (such as **Ultratop Base Coat** by MAPEI S.p.A.), which acts as absorption regulator and pore filler. After this treatment, a specific film-forming finish product (such as products from the **Mapefloor Finish** range by MAPEI S.p.A.) will be applied to reduce surface absorption and further enhance the abrasion resistance. In areas subjected to continuous or prolonged exposure to water or liquids, the surface should be protected with a two-component, aliphatic polyurethane finish with glossy effect (such as **Mapefloor Finish 50 N** by MAPEI S.p.A.), without the need for a prior primer coat. If a satin or matt finish is desired, apply an additional layer of finishing product (such as products from the **Mapefloor Finish** range by MAPEI S.p.A.), after the polyurethane finish has hardened. This final coat will be chosen according to the desired final aesthetic.

The hardened material must have the following characteristics:

Compressive strength at +23°C - 24 hours: - 7 days: – 28 days:	 8 N/mm² 18 N/mm² 25 N/mm²
Flexural strength at +23°C - 24 hours: - 7 days – 28 days:	 5 N/mm² 9 N/mm² 12 N/mm²
Taber abrasion resistance (H22 wheel - 500 g - 200 revs): - 7 days: – 28 days :	 0.7 g 0.5 g
Böhme abrasion resistance – 28 days:	 9 cm³/50 cm²
Reaction to fire (EN 13501-1):	$A2_{FL}$ - s1 A2 - s1 - d0
Determination of castor chair test (type W - 25,000 cycles) EN 425	– delamination: no – cracking: no

Low VOC emission (CDPH standard)
It can contribute to LEED credits. EPD (Environmental Product Declaration) compliant.

Mapei S.p.A.

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4024-2-2026 en (IT)

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