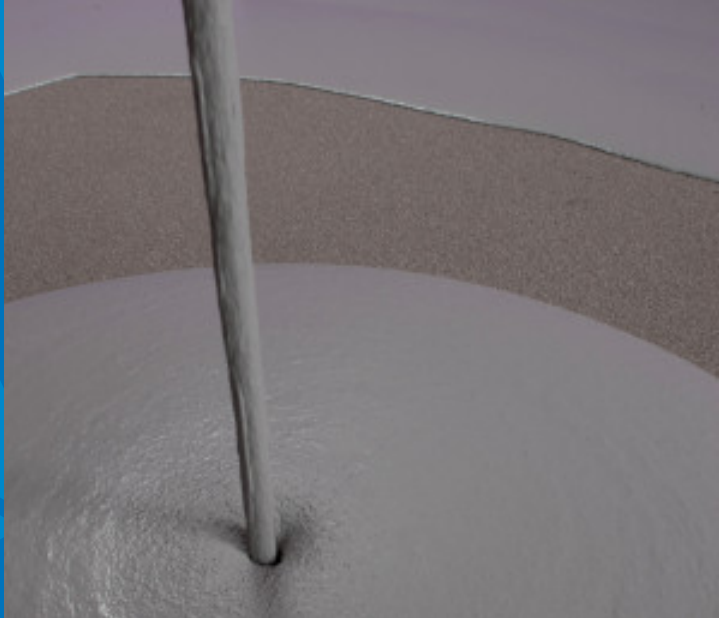


ULTRATOP LIVING

Ultra-fast setting, self-levelling mortar based on special hydraulic binders, for abrasion-resistant internal flooring, thickness from 5 to 15 mm



CLASSIFICATION ACCORDING TO EN 13813

Ultratop Living self-levelling compound, applied according to the specifications in this Technical Data Sheet, is classified as CT - C30 - F7 - A12 - A2_{fl} s1 in compliance with EN 13813 Standards.

WHERE TO USE

Thanks to its high mechanical strength, abrasion resistance and aesthetical appearance characterized by an evident matric effect, **Ultratop Living** is suitable for numerous applications in the decorating sector of building for civil use: public, private, commercial and residential.

Ultratop Living, therefore, is used to create smooth, flat, finished floors from 5 to 15 mm thick in civil environments on both new substrates and existing concrete or ceramic tile floors to make them resistant to pedestrian traffic in shopping malls, hotels, offices, shops, showrooms, apartments, etc.

Some application examples

- New floors in shopping malls, supermarkets, hotels, restaurants, shops, showrooms and apartments.
- Abrasion-resistant floors on concrete, old terrazzo, ceramic and natural stone subjected to light traffic.

TECHNICAL CHARACTERISTICS

Ultratop Living is a self-levelling product in powder and is available in light grey, white, anthracite and natural (beige going on light brown). It is made up of special quick-drying and quick-setting binders, specially graded silica sand, synthetic resins and special admixtures according to a formulation developed in MAPEI's own R&D Laboratories.

When mixed with water, **Ultratop Living** becomes a self-levelling compound which is easy to apply either by hand or pump in thickness from 5 to 15 mm.

After setting, which takes place just a few hours, **Ultratop Living** reaches a good level of compressive and flexural strength, bonds perfectly to the substrate and, thanks to its special composition, dries quickly so that any further finishing coat may be carried out after a very short time.

According to EN 13813 : 2002, **Ultratop Living** is classified as CT - C30 - F7 - A12 - A2_{fl}-s1.

CT refers to a cementitious-based product, C30 and F7 refer to the compressive and flexural strength respectively after 28 days, A12 is the Böhme abrasion-resistance coefficient and A2_{fl}-s1 is the fire reaction class.

RECOMMENDATIONS

- Do not add water to the mix once **Ultratop Living** starts setting.
- Do not add lime, cement, gypsum or other binders to **Ultratop Living** mix.
- Do not use **Ultratop Living** on substrates subject to rising damp (please consult the MAPEI Technical Services Department).

- Do not use **Ultratop Living** as an unbonded screed. **Ultratop Living** must always be anchored to a solid, compact substrate.
- Do not use **Ultratop Living** on wet surfaces.
- Do not use **Ultratop Living** on metallic surfaces.
- Do not apply **Ultratop Living** if the temperature is lower than +5°C or higher than +35°C.
- The colours of floors made using **Ultratop Living** are not always uniform, a typical feature of cementitious-based products. Apart from the inherent nature of the product, differences in the various colours may also be caused by the way the product is applied. Also, it must be cast continuously without long pauses, in order to guarantee perfect flatness.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be dry, sound and free of dust, loose and detached parts, paint, wax, oil, rust and any other substance which may compromise the bond.

Apply special compressible band around the perimeter of the rooms where the floor is to be laid and around any vertical element which pass through the floor (such as pillars and columns).

Concrete and/or ceramic or natural stone surfaces must be prepared by shot-blasting or milling and primed with **Primer SN** and, where required, reinforced with **Mesh 320** (glass fibre mesh) followed by a fully sprinkle of **Quartz 1.2**.

After application, leave **Primer SN** to dry for 12-24 hours, according to the surrounding temperature.

Before casting **Ultratop Living**, remove excess sand with a vacuum cleaner.

Cracks in the substrate must be repaired beforehand using **Eporip**.

Preparation of the mix

Pour a 25 kg bag of **Ultratop Living** into a container with 4.75-5.25 litres of clean water while mixing and keep mixing with a low-speed electric mixer to form a smooth, flowable, lump-free, self-levelling blend.

Let it stand for 2-3 minutes and mix the blend again before application.

Only mix quantities of **Ultratop Living** which may be applied within 15 minutes at a temperature of +23°C. The workability time of the mix varies according to the temperature and reduces as the temperature increases.

If larger quantities of the product are required for medium to large surfaces, we recommend mixing the product in a vertical-shaft mixer.

When preparing the product in a mixer, the amount of water required for blending the product is the same as for manual mixing. Keep mixing the product until it is completely blended before laying it on the surface.

A mechanical mixer is indispensable when **Ultratop Living** is applied using a liquid screed pump machine. This is the only method which guarantees that there is a continuous flow of the product while casting.

Spreading the mix

Spread **Ultratop Living** by hand or mechanically (with a worm-screw liquid screed pump machine) in a single layer from 5 to 15 mm thick.

Make sure the product is applied in a continuous flow without pauses or interruptions to avoid defects in flatness and particularly visible differences in colour. Thanks to its self-levelling properties, **Ultratop Living** immediately eliminates all imperfections left by the smoother.

When laying the product, respect the expansion joints in the substrate and form distribution joints at least every 50 m². On heated floors, the bay size must be reduced to 25-30 m².

If **Ultratop Living** is applied in civil buildings where rooms are smaller than 50 m², include expansion joints in correspondence with door-sills or where there is a significant variation in volume between the rooms to be coated.

Seal joints with **Mapectex PU45** one-component, thixotropic, rapid-hardening polyurethane sealant and adhesive with a high modulus of elasticity for sealing expansion and distribution joints. Insert **Mapectex** closed-cell polyethylene foam cord in the joints beforehand to obtain the required depth and avoid the sealant sticking to the bottom of the joint.

Approximately 3 days after application, the surface of **Ultratop Living** must be protected and made non-absorbent using one of the **Mapectex Finish** range finishing products. The most suitable finishing product will be selected according to the aesthetic effect and according to the wear-resistance required. Please contact the MAPEI Technical Services Department for more information.

In order to make routine cleaning and maintenance operations simpler, we recommend applying a coat of **Mapectex Opaca** or **Mapectex Lucida** metallic wax over the entire surface of the floor.



Priming the substrate



Application of self-levelling mortar



Finishing and waxing the surface

CLEANING

Ultratop Living may be removed from tools with water while still fresh.

CONSUMPTION

Ultratop Living used pure: 16.5-17.5 kg/m² per cm of thickness.

PACKAGING

Ultratop Living is available in 25 kg bags.

STORAGE

Ultratop Living remains stable for 12 months if stored in a dry place.

If stored for longer periods, it may take longer to set but without modifying its final characteristics.

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultratop Living is irritant, it contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. It is recommended to use protective gloves and goggles.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values) In compliance with: EN13813 : 2002, CT – C30 – F7 – A12 - A2 _{fl} -s1	
PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	light grey, natural, white and anthracite
Bulk density (kg/m ³):	1,300
Dry solids content (%):	100
EMICODE:	EC1 R - very low emission

APPLICATION DATA (at +23°C - 50% R.H.)				
Mixing ratio:		approx. 19-21 parts of water per 100 parts by weight of Ultratop Living		
Thickness (mm):		from 5 to 15		
Self-levelling:		yes		
Density of the mix (kg/m³):		2,000-2,100		
pH of mix:		approx. 12		
Application temperature range:		from +5°C to +35°C		
Pot life:		15 minutes		
Setting time:		60-80 minutes		
Set to light foot traffic:		3-4 hours		
FINAL PERFORMANCES				
Performance characteristic	Test method	Requirements according to EN 13813 for cementitious screeds	Product performance	
Compression strength:	EN 13892-2	5 < N/mm² < 80 (28 days)	+23°C	
			24 h	15
			72 h	19
			7 days	24
			28 days	32
Flexural strength:	EN 13892-2	1 < N/mm² < 50 (28 days)	+23°C	
			24 h	4.5
			72 h	5.5
			7 days	7
			28 days	9
Adhesion to concrete:	EN 13892-8	> 1.5 N/mm²	+23°C	
			24 h	2.0 (substrate failure)
			28 days	2.5 (substrate failure)
Abrasion resistance Taber expressed as loss in weight (g) (H22 disk - 500 g - 200 rpm):	ASTM D4060		+23°C	
			7 days	0.8

			28 days	0.7
Abrasion resistance Böhme:	EN 13892-3	$1.5 < \text{cm}^3/50 \text{ cm}^2 < 22$	+23°C	
			28 days	11
Reaction to fire:	EN 13501-1	Value specified by the manufacturer	A2fl-s1	

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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