ULTRAPLAN

Ultra-fast hardening self-levelling smoothing compound, for thicknesses from 1 to 10 mm





BENEFITS AND FEATURES

- Excellent self-leveling and surface finish
- High adhesion to the substrate
- High compressive and flexural strength and abrasion resistance
- Ready for the installation of ceramic coverings after 3 hours and of resilient or wooden floors after 12 hours
- EMICODE EC1 Plus (very low emission of VOC)

CLASSIFICATION ACCORDING TO EN 13813

Ultraplan smoothing compound, as described in this data sheet, is classified as CT-C30-F7-A2fl-s1 according to European Norm EN 13813.

WHERE TO USE

Ultraplan is used for levelling and smoothing differences in thicknesses from 1 to 10 mm on new or existing substrates, preparing them to receive all kinds of flooring where a high resistance to loads and traffic is required.
Ultraplan is especially suitable for areas subject to wheeled service loads such as chairs and trolleys.
Ultraplan is for interior use only.
Typical applications would include use in hospitals, hotels, theatres, schools and shopping centres.

Some application examples

- Levelling concrete slabs and cementitious screeds or **Topcem, Mapecem, Mapecem Pronto,** or **Topcem Pronto**-based screeds
- Levelling anhydrite substrates
- Levelling over underfloor heating/cooling systems prior to laying subsequent finishes
- Levelling existing concrete substrates, terrazzo, ceramic, natural stone and magnesite floors

TECHNICAL CHARACTERISTICS

Ultraplan is a grey powder consisting of special cements with rapid setting and hydration, with selected graded silica sand, resins, and special additives prepared according to a formula developed in the MAPEI Research Laboratories.
Mixed with water, **Ultraplan** becomes a highly fluid and easily workable compound, with perfect self-levelling properties, high adhesion to the substrate, and ultra-fast drying.

Ultraplan can be applied with an automatic pressure pump for distances over 100 m.
Ultraplan can be spread in thicknesses up to 10 mm per layer without shrinkage, cracking, or crazing, and develops very high compressive and flexural strength as well as resistance to indentation and abrasion.
For thicknesses greater than 10 mm (max. 20 mm), it may be necessary to add graded sand or alternatively use a product more suitable for thicker sections, such as **Ultraplan Maxi**.
However, please contact your local MAPEI representative for guidelines and recommendations. Installation of the flooring can begin approximately 3-12 hours after the application of **Ultraplan**, regardless of thickness

RECOMMENDATIONS

- Do not add more water to a mix that has already begun to set
- Do not add lime, cement, or gypsum to the mix
- Do not use **Ultraplan** for exterior levelling works
- Do not use **Ultraplan** on substrates subject to continuous rising dampness
- Do not apply an additional layer of **Ultraplan** until the previous one is completely dry; in this case, first apply **Primer G** diluted with 1:3 of water by volume or **Eco Prim T Plus** diluted with 1:1 of water by volume
- Do not use **Ultraplan** on metal surfaces
- Do not use **Ultraplan** when the temperature is below +5°C
- Do not apply **Ultraplan** in thicknesses less than 3 mm if the wood is to be overlaid

APPLICATION PROCEDURE

Preparation of the substrate

The substrates must be solid, dry, and free of dust, loose parts, paint, wax, oils, rust, and traces of gypsum.
Cement-based surfaces that are not sufficiently solid must be removed or, where possible, consolidated with **Prosfas**, **Eco Prim PU 1K**, or **Primer MF**.
Cracks must be repaired with **Eporip** and sprinkled with sand.
Treat dusty or particularly porous concrete surfaces with a suitable primer such as **Primer G** (diluted 1:1 with water) or **Eco Prim T Plus ME** (diluted up to 1:4 with water) to hold the dust and even out the absorbency of the substrate. Anhydrite screeds must be mechanically abraded and can only be levelled with **Ultraplan** after a coat of **Primer G** or **Eco Prim T Plus ME** has been applied.
For application onto ceramic or natural stones, apply **Eco Prim T Plus ME** after the surfaces have been cleaned with detergents and mechanically abraded. Level with **Ultraplan** after **Eco Prim T Plus ME** has dried completely. Please refer to the relevant Technical Data Sheet.
Wooden substrates must be clean and solidly fixed; any paints, oils, or waxes must be removed and open joints have to be sealed with **Planipatch** or **Planipatch Xtra** mixed with Latex Plus prior to the application of **Ultraplan**.

Preparation of the mix

Slowly pour a 23 kg bag of **Ultraplan** into a bucket containing 5.75-6.0 litres of clean water and mix with a low-speed electric mixer to obtain a homogeneous, self-levelling lump-free mix. Larger quantities of **Ultraplan** can be prepared in mortar mixers. Allow the mixed **Ultraplan** to stand for 2-3 minutes, after which, the mix should be restirred, and then it is ready for use.
The quantity of **Ultraplan** mixed must be used within 20-30 minutes (at a temperature of +23°C). When working in high ambient temperatures, established hot weather practices such as; shading of stored material, avoiding application during the hottest time of the day, and use of cool water when mixing should be observed.
During and immediately after the application of the material, protection from the effect of excessive winds and drafts, (wind tunnel effect) is necessary to avoid rapid drying shrinkage through uncontrolled drying out of the mixed material.

Application of the mix

Apply **Ultraplan** in a single layer from 1 to 10 mm thick with a large metal trowel or a squeegee, keeping the trowel slightly inclined to obtain the desired thickness. **Ultraplan** can also be applied with an automatic pressure pump. Due to its remarkable self-levelling characteristic, **Ultraplan** immediately eliminates small imperfections (trowel marks, etc).
If a second layer of **Ultraplan** is required, it is recommended to apply it as soon as the first one is set to light foot traffic (after 3 hours at +23°C). The leveled application of **Ultrapla**n will be ready to receive resilient, carpet, ceramic and wood floor coverings fixed with adhesives after 3-12 hours at +23°C (time can vary depending on the

thickness of the levelling, the room temperature, and humidity).
For installing wood on concrete substrates, the levelling layer of **Ultraplan** must be at least 3 mm thick. Carefully check the humidity content with a carbide hygrometer or an electronic moisture meter, keeping in mind that the latter only gives indicative values.
When laying underfloor heating or cooling systems, follow the regulations for the preparation of the substrate and the relevant start-up procedure.
On large surfaces, follow all the movement joints present in the substrate.

CLEANING

Before hardening, the mixed material can be cleaned from tools and equipment with water. After setting, cleaning is very difficult and it can only be removed mechanically.



Slab levelled with Ultraplan ready for fixing a floating floor



Application of Ultraplan with a metal trowel on an existing concrete floor



Application of Ultraplan with pump and squeegee

CONSUMPTION

1.6 kg/m² per mm of thickness.

PACKAGING

Ultraplan is available in 23 kg bags.

STORAGE

When stored in dry conditions in the original, unopened bags, **Ultraplan** has a shelf life of 12 months. If stored at high temperature and or high humidity conditions the shelf life may be reduced.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION	
Consistency:	fine powder
Colour:	Grey
Bulk density:	1300 kg/m³

Dry solids content:	100%
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	25-26 parts water per 100 parts by weight of **Ultraplan**
Thickness per layer:	from 1 to 10 mm
Self-levelling:	Yes
Density of the mix:	1900 kg/m³
pH of mix:	approx. 12
Application temperature range:	from +5°C to +40°C
Pot life:	20-30 minutes
Setting time:	45-60 minutes
Set to light foot traffic:	after 3 h
Waiting time before application of the covering:	
– ceramic tiles:	3 h
– resilient and wood flooring:	12 h

FINAL PERFORMANCE (at +23°C)	
Compressive strength ((N/mm²):	
– after 1 day:	15.0
– after 3 days:	19.0
– after 7 days:	22.0
– after 28 days:	30.0
Flexural strength (N/mm²):	
– after 1 day:	3.5
– after 3 days:	5.5
– after 7 days:	6.0
– after 28 days:	8.0
Resistance to abrasion TABER Abrasimeter (Abrading wheel H22-550 g-200 revolutions) expressed as weight loss:	
– after 7 days:	1 g
– after 28 days:	0.7 g
Brinell hardness:	
– after 1 day:	60
– after 3 days:	80
– after 7 days:	85
– after 28 days:	110

IMPORTANT NOTES

While we try to ensure that any advice, recommendations, or information in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is, therefore, important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given, nor can responsibility be accepted, other than the product we supply will meet our written specifications. The installer should ensure that our latest product data and safety information sheets have been consulted before use.

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

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents. 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.ae.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDE THE RESPONSIBILITY OF MAPEI.

All relevant product references are available upon request and at www.mapei.com.

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