



Ultraplan Eco



schadstoffgeprüft
emissionsgeprüft
marktüberwacht



**Ultra-fast hardening
self-levelling
compound with very
low VOC (volatile
organic compound)**



WHERE TO USE

Ultraplan Eco is used for interior levelling and removing differences in thickness from 1 to 10 mm of new or existing substrates, preparing them to receive any kind of flooring where excellent resistance to loads and traffic is needed.

Ultraplan Eco is particularly suitable for areas subject to wheeled chairs.

Ultraplan Eco is for interior use only.

Some application examples

- Levelling concrete slabs, cement, **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**, anhydrite and magnesite based screeds with underfloor heating systems incorporated.
- Levelling existing cement, terrazzo, ceramic and natural stone floors.

TECHNICAL CHARACTERISTICS

Ultraplan Eco is a grey powder consisting of special cements with rapid setting and hydration together with graded silica sand, resins and special additives, according to a formula developed in the MAPEI Research and Development Laboratories.

Mixed with water **Ultraplan Eco** becomes a highly fluid and easily workable mortar, which is self-levelling, with high adhesion to the substrate and dries ultra-quickly.

Ultraplan Eco can be applied with an automatic pressure pump for distances over 100 m.

Ultraplan Eco can be spread in thicknesses up to

10 mm per coat without shrinkage, cracking or crazing, and develops very high compressive and flexural strength, as well as resistance to indentation and abrasion.

Ultraplan Eco is ready to receive flooring after approximately 12 hours, regardless of the thickness.

It is recommended to wait 24 hours before installing wooden flooring.

Ultraplan Eco's VOC content is practically zero, certified by the TFI German Institute, so is harmless to the health of the installer and the end-user.

RECOMMENDATIONS

- Do not add water to a mix which has already started to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use **Ultraplan Eco** for exterior levelling work.
- Do not use **Ultraplan Eco** on substrates subject to continuous rising damp.
- If a coat of **Ultraplan Eco** needs to be applied once the preceding one is completely dry, first apply **Eco Prim R**.
- Do not apply **Ultraplan Eco** at temperatures below +5°C.
- Do not apply **Ultraplan Eco** at thicknesses less than 3 mm when wooden flooring is to be installed.

TECHNICAL DATA (typical values):	Certified by the TFI German Institute, Certif. N° 99369
PRODUCT IDENTIFICATION	
Consistency:	fine powder
Colour:	grey
Bulk density (kg/m³):	1300
Dry solid content (%):	100
Storage:	12 months in original sealed packaging in a dry place
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
Custom class:	3824 50 90
APPLICATION DATA at +23°C – 50% R.H.	
Mixing ratio:	25-26 parts of water per 100 parts by weight of Ultraplan Eco
Thickness per coat:	from 1 to 10 mm
Self levelling:	yes
Density of the mix (kg/m³):	2000
pH of mix:	approx. 12
Application temperature range:	from +5°C to +35°C
Open time:	20-30 minutes
Setting time:	45-60 minutes
Set to light foot traffic:	3 hours
Time before laying flooring:	12 hours (24 hours for wood flooring)
FINAL PERFORMANCE DATA	
Compressive strength (N/mm²): – after 1 day: – after 3 days: – after 7 days: – after 28 days:	12.0 17.0 20.0 26.0
Flexural strength (N/mm²): – after 1 day: – after 3 days: – after 7 days: – after 28 days:	3.0 4.0 5.0 7.0
Resistance to abrasion Taber Abrasimer (Abrading wheel H22-550 g-200 revolutions) expressed as weight loss (g): after 7 days: after 28 days:	2.8 2.3
Brinell hardness: – after 1 day: – after 3 days: – after 7 days: – after 28 days:	55 70 80 100

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be completely dry, solid, free from dust, loose areas, paint, wax, oil, rust and traces of gypsum.

Cement based surfaces not sufficiently solid must be removed or, where possible, reinforced with **Profas** or **Primer MF**.

Fissures in concrete substrates must be repaired with **Eporip**.

Dusty or very porous concrete surfaces must be treated with a coat of **Eco Prim R**, diluted with water 1:1 (**Eco Prim R** has been certified by the TFI German Institute as a very low VOC content product).

Anhydrite screeds can be levelled with **Ultraplan Eco**, but must first be abraded to remove any surface laitance and then primed with a coat of **Eco Prim R** (diluted with water 1:1) or **Mapeprim SP**, before the application of **Ultraplan Eco**.

Ceramic and natural stone substrates must be cleaned with detergents and abraded and then primed with undiluted **Eco Prim R**.

Preparing the mix

Pour a 23 kg bag of **Ultraplan Eco** into a bucket containing 5.75 litres of clean water and mix with a low speed electric mixer to obtain an homogeneous lump free mix.

Larger quantities can be prepared in on-site mixers.

After 2-3 minutes of slackening, restir the mix. The mix is then ready for use.

It is recommended to add approximately 20-30% of 0/4 or 0/8 grain sand when **Ultraplan Eco** is used for thicknesses greater than 10 mm (max 20 mm). For further information consult MAPEI Technical Assistance.

The quantity of **Ultraplan Eco** mixed at any time must be used within 20-30 minutes (at +23°C).

Spreading the mix

Apply **Ultraplan Eco** in a single coat from 1 to 10 mm with a large metal trowel or rake keeping the trowel slightly inclined to obtain the desired thickness.

Ultraplan Eco can also be applied with an automatic pressure pump.

Due to its exceptional self levelling properties **Ultraplan Eco** immediately loses small imperfections (trowel marks, etc.).

When a second coat of **Ultraplan Eco** is required, it is recommended to apply it as soon as the first one is set to light foot traffic (approximately 3 hours at +23°C).

Ultraplan Eco is suitable to receive resilient, carpet, and ceramic floor coverings fixed after 12 hours at +23°C (the time can vary,

depending on the room temperature and humidity). When installing wood flooring or natural stone, wait 24 hours.

Check the humidity content with a carbide hygrometer or an electric moisture meter, keeping in mind that the latter only gives indicative values.

Cleaning

While still wet, **Ultraplan Eco** can be removed from tools with water.

CONSUMPTION

1.6 kg/m² per mm of thickness.

PACKAGING

Ultraplan Eco is available in 23 kg bags.

STORAGE

Ultraplan Eco stored in a dry place is stable for at least 12 months. However, with time it could undergo a slower setting time but the final characteristics do not alter.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Ultraplan Eco is not considered a dangerous substance according to current norms and regulations regarding the classification of substances. The usual precautions taken when handling chemical products are recommended. If the product is applied in a closed area, make sure that it is well ventilated.

The Safety Data Sheet is available on request for professional users.

FOR PROFESSIONALS.

WARNING

Although the technical details and recommendations contained in this product report 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 applications; 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.

**All relevant references
of the product are available
upon request**

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