



# Ultraplan Maxi

**Ultra-fast drying  
self-levelling  
compound for  
thicknesses from  
3 to 30 mm**



## WHERE TO USE

**Ultraplan Maxi** is used for levelling and smoothing differences in thicknesses from 3 to 30 mm on new or existing substrates, preparing them to receive all kinds of flooring where high resistance to loads and traffic is required. **Ultraplan Maxi** is especially suitable for areas subject to wheeled chairs and underfloor heating systems.

**Ultraplan Maxi** is for interior use only.

## Some application examples

- Levelling screeds incorporating electric heating cables prior to laying ceramic tiles or resilient floors.
- Levelling concrete slabs and cementitious screeds or **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** based screeds.
- Levelling anhydrite substrates.
- Levelling underfloor heating systems.
- Levelling existing concrete floors, terrazzo, ceramic, natural stone and magnesite floors.

## TECHNICAL CHARACTERISTICS

**Ultraplan Maxi** is a grey powder composed of rapid setting and hydrating special cements together with selected graded silica sand, resins and special

additives, produced to a formula developed in the MAPEI Research and Development Laboratories.

Mixed with water **Ultraplan Maxi** becomes a highly fluid and easily workable mortar, with perfect self-levelling properties, and high adhesion to the substrate and ultra-rapid drying.

**Ultraplan Maxi** can be applied with an automatic pressure pump for areas over 100 m.

**Ultraplan Maxi** can be spread in thicknesses up to 30 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 Maxi** is ready to receive the flooring as soon as it has dried: the time required depends on the thickness of the levelling layer, the environmental temperature and relative humidity and on the absorption of the substrate.

## RECOMMENDATIONS

- Do not add more water to a mix which has already begun to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use **Ultraplan Maxi** for exterior levelling.
- Do not use **Ultraplan Maxi** on substrates subject to continuous rising damp.



- Do not use as a floating screed. **Ultraplan Maxi** must always be anchored to a solid substrate.
- Do not use **Ultraplan Maxi** on metal surfaces.
- Do not apply **Ultraplan Maxi** at temperatures below +5°C.

## APPLICATION PROCEDURE

### Preparing the substrate

Substrates must be dry, sound, 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, consolidated with **Profas**, **Primer EP** or **Primer MF**.

Cracks must be repaired with **Eporip**.

Dusty or very porous concrete surfaces must be treated with **Eco Prim R** (1 part **Eco Prim R** with 1 part of water), in order to bind the dust and to provide uniform substrate absorption.

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

On existing ceramic tile or natural stone floors apply **Mapeprim SP** after the surfaces have been cleaned with detergents and mechanically abraded. Level with **Ultraplan Maxi** before **Mapeprim SP** has dried completely (whilst still indentable).

### Preparing the mix

Pour a 25 kg bag of **Ultraplan Maxi** into a bucket containing approx. 5 l of clean water and mix with a low speed electric mixer to obtain an homogenous, self-levelling, lump free mix.

Larger quantities can be prepared in cement mixers.

Allow to slacken for 2-3 minutes. Restir when the mix is ready for use.

The amount of **Ultraplan Maxi** mixed at any time must be used within 30-40 minutes (at a temperature of +23°C).

### Applying the mix

Apply **Ultraplan Maxi** in a single coat from 3 to 30 mm with a large metal trowel or rake.

**Ultraplan Maxi** can also be applied with an automatic pressure pump.

Due to its remarkable self-levelling

characteristic, **Ultraplan Maxi** leaves no surface imperfections (trowel marks, etc.).

When laying underfloor heating systems follow the local regulations for substrate preparation and the heating procedure.

On large surfaces follow all the movement joints present in the substrate, and form control joints approx. every 50 m<sup>2</sup>.

## Cleaning

When fresh, **Ultraplan Maxi** can be removed from tools and hands with water.

## CONSUMPTION

1.6 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

**Ultraplan Maxi** is available in 25 kg bags.

## STORAGE

**Ultraplan Maxi**, stored in a dry place, is stable for at least 12 months.

Longer storage (over 12 months) could result in slower setting. However, the performance is not significantly affected.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

## SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Contains cement that in contact with sweat or other body fluids produces an irritant alkaline reaction and allergic reactions to those predisposed. Use gloves and protective goggles.

For further information refer to the Safety Data Sheet.

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**

## TECHNICAL DATA (typical values)

### PRODUCT IDENTIFICATION

<b>Consistency:</b>	fine powder
<b>Colour:</b>	grey
<b>Bulk density (kg/m<sup>3</sup>):</b>	1500
<b>Dry solid content (%):</b>	100
<b>Storage:</b>	12 months in a cool dry place in original unopened packaging
<b>Hazard classification according to EC 99/45:</b>	irritant. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
<b>Customs class:</b>	3824 50 90

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

<b>Mixing ratio:</b>	approx. 19-20 parts of water per 100 parts by weight of <b>Ultraplan Maxi</b>
<b>Thickness per coat:</b>	from 3 to 30 mm
<b>Self-levelling:</b>	yes
<b>Density of the mix (kg/m<sup>3</sup>):</b>	2000
<b>pH of mix:</b>	approx. 12
<b>Application temperature range:</b>	from +5°C to +30°C
<b>Pot life:</b>	30-40 minutes
<b>Setting time:</b>	50-70 minutes
<b>Set to light foot traffic:</b>	3 hours
<b>Time before laying flooring:</b>	from 2 days to 2-3 weeks depending on thickness

### FINAL PERFORMANCE

<b>Compressive strength (N/mm<sup>2</sup>):</b> - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 20.0 25.0 27.0 35.0
<b>Flexural strength (N/mm<sup>2</sup>):</b> - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 3.5 4.5 5.0 8.0
<b>Resistance to abrasion:</b> <b>Taber Abrasimeter</b> <b>(Abrading wheel H22 disc - 550 g - 200 rmp)</b> <b>expressed in weight loss (g):</b> - after 7 days: - after 28 days:	   3.5 3.0
<b>Brinell hardness (N/mm<sup>2</sup>):</b> - after 1 day: - after 3 days: - after 7 days: - after 28 days:	 70 80 90 100

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