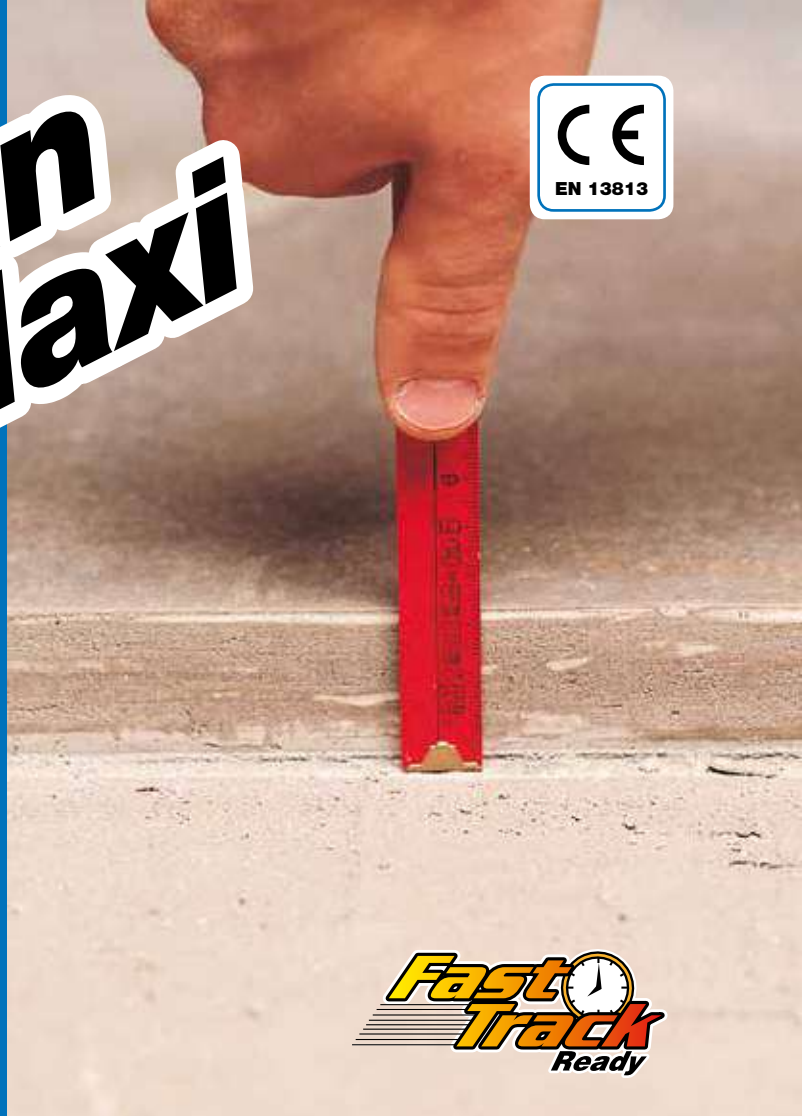




Ultraplan Maxi



**Ultra-fast
drying self-levelling
compound for
thicknesses from
3 to 40 mm**



WHERE TO USE

Ultraplan Maxi is used in interiors for levelling and smoothing differences in thicknesses from 3 to 40 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 for use with 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 pavements, terrazzo, ceramic, natural stone and magnesite floors.

TECHNICAL CHARACTERISTICS

Ultraplan Maxi is a grey powder consisting of special cements with rapid setting and hydration

together with selected graded silica sand, resins and special admixtures, prepared according to a formula developed in the MAPEI Research Laboratories.

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

Ultraplan Maxi can be applied with an automatic pressure pump at distances over 100 m.

Ultraplan Maxi can be spread in thicknesses up to 40 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 for exterior levelling works.
- Do not use on substrates subject to continuous rising damp.
- Do not use as an unbonded screed. **Ultraplan Maxi** must always be anchored onto a solid substrate.
- Do not use 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 laitance, dust, loose parts, paint, wax, oil, rust and traces of gypsum.

Cement-based surfaces not sufficiently solid must be removed or, where possible, consolidated with **Prosfas**, **Primer EP** or **Primer MF**.

Cracks must be repaired with **Eporip**.

Dusty or very porous concrete surfaces must be treated with a coat of **Primer G** (1 part **Primer G** with 3 parts of water) or with **Livigum** (1 part **Livigum** with 5 parts water), in order to fix the dust and to provide uniform absorption of the substrate.

Anhydrite screeds must be mechanically abraded and can only be levelled with **Ultraplan Maxi** after a coat of **Primer G**, **Mapeprim SP** or **Primer EP** has been applied.

On ceramic tiles or natural stone apply **Mapeprim SP** after the surfaces have been cleaned with detergents and mechanically abraded. Level with **Ultraplan Maxi** before **Mapeprim SP** has dried completely (indents must still be possible to make).

Preparing the mix

Pour a 25 kg bag of **Ultraplan Maxi** into a bucket containing 4.5-4.75 l of clean water and mix with a low speed electric mixer to obtain an homogeneous, self-levelling, lump free mix.

Larger quantities of **Ultraplan Maxi** can be prepared in suitable mixers.

After 2-3 minutes of **Ultraplan Maxi** slackening, the mix should be restirred and then it 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 40 mm with a large metal trowel or spiked roller.

Ultraplan Maxi can also be applied with an automatic pressure pump. Due to its remarkable self-levelling characteristics, **Ultraplan Maxi** immediately eliminates small imperfections (trowel marks, etc.).

When laying underfloor heating systems follow the regulations for the preparation of the substrate and the heating start-up procedure.

On large surfaces follow all the movement joints present in the substrate and form control joints for every 50 m² approx.

Cleaning

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

CONSUMPTION

1.7 kg/m² 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. A longer storage (over 12 months) could determine a slower setting time of **Ultraplan Maxi**. However, the performances of the levelling layer at longer ages are not significantly modified. The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH) - All. XVII, item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Ultraplan Maxi contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. During use, it is recommended to wear protective gloves and goggles and to take the usual precautions for handling chemicals. 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.

WARNING

Although the technical details and

TECHNICAL DATA (typical values)

Conformity with:

– European EN 13813 CT-C35-F7-A2₁

PRODUCT IDENTITY

Consistency: fine powder

Colour: grey

Bulk density (kg/m³): 1,300

Dry solids content (%): 100

EMICODE: EC1 R Plus - very low emission

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

Mixing ratio: 18-19 parts of water per 100 parts by weight of **Ultraplan Maxi**

Thickness per coat (mm): from 3 to 40

Self-levelling: yes

Density of mix (kg/m³): 2,050

pH of mix: approx. 12

Application temperature range: from +5°C to +30°C

Pot life: 30-40 minutes

Setting time: 50-70 minutes

Set to light foot traffic: 3 hours

Time before laying flooring: 1-3 days depending thickness ambient temperature

FINAL PERFORMANCE

Compressive strength (N/mm²):
– after 1 day: 20.0
– after 3 days: 25.0
– after 7 days: 27.0
– after 28 days: 35.0

Flexural strength (N/mm²):
– after 1 day: 3.5
– after 3 days: 4.5
– after 7 days: 5.0
– after 28 days: 8.0

Resistance to abrasion Taber Abrasimeter
(Abrading wheel - 500 g - 200 rpm)
expressed in weight loss (g):
– after 7 days: 1.5
– after 28 days: 1.2

Brinell hardness (N/mm²):
– after 1 day: 70
– after 3 days: 80
– after 7 days: 90
– after 28 days: 100

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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

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 effect at the time of the

MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

All relevant references for the product are available upon request and from www.mapei.com