

# ULTRAPLAN XTRA

Ultra-fast drying self-levelling compound from 1 to 20 mm



[www.blauer-engel.de/uz113](http://www.blauer-engel.de/uz113)



## CLASSIFICATION ACCORDING TO EN 13813

Ultraplan Xtra smoothing compound as described in this technical data sheet is classified as CT-C40-F7-A2<sub>FL</sub>-S1 according to European norm EN 13813.

## WHERE TO USE

Ultraplan Xtra is used in interior for levelling and smoothing differences in thicknesses from 1 to 20 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 Xtra is especially suitable for areas subject to wheeled chairs.

Ultraplan Xtra is for interior use only.

### 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 systems.
- Levelling existing concrete substrates, terrazzo, ceramic, natural stone and magnesite.

## TECHNICAL CHARACTERISTICS

Ultraplan Xtra is a grey powder consisting of special cements with rapid setting and hydration, with selected graded silica sand, resins and special admixtures prepared according to a formula developed in the MAPEI Research laboratories.

Mixed with water, Ultraplan Xtra becomes a fluid and easily workable mortar, perfectly self-levelling, with high bonding strength to the substrate and ultra-fast drying.

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

Ultraplan Xtra can be spread in thicknesses up to 20 mm per coat 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 20 mm (max. 50 mm), it is recommended to add approx. 30% by weight of 0.4-0.8 mm quartz.

**Ultraplan Xtra** is ready to receive ceramic tiles after approx. 3 hours. Resilient and wooden floors can be installed approx. 12 hours after the application, after approx. 6 hours for thicknesses up to 5 mm.

## 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 Xtra** for exterior levelling works.
- Do not use **Ultraplan Xtra** on substrates subject to continuous rising damp.
- If another layer is required, the previous coat must be completely dry. Before application of the second layer, apply a suitable primer.
- Do not use **Ultraplan Xtra** on metal, wood, rubber, PVC and linoleum.
- Do not use **Ultraplan Xtra** when the temperature is below +5°C.
- Do not apply **Ultraplan Xtra** in thicknesses less than 3 mm if wood is to be overlaid.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must comply with the specifications contained in the applicable standards for each country. Substrates must be sound and free of all traces of dust, loose or detached parts, varnish, wax, oil, rust and gypsum.

Cementitious-based surfaces that are not sufficiently sound must be removed or, where possible, consolidated with a suitable MAPEI system (such as **Prosfas**, **Eco Prim PU 1K** or **Primer MF**).

Repair any cracks present in the substrate with **Eporip** or **Eporip SCR**.

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** (diluted up to 1:4 with water) to hold the dust and even out the absorbency of the substrate. Anhydrite screeds may only be levelled off with **Ultraplan Xtra** after sanding the surface and applying a suitable primer (such as **Primer G** undiluted or **Eco Prim T Plus** diluted up to 1:2 with water).

Prime existing ceramic and natural stone surfaces with a coat of **Eco Prim T Plus** or **Eco Prim Grip Plus** after cleaning the surface with a suitable detergent and, if required, abrading the surface mechanically.

### Preparing the mix

Pour a 23 kg bag of **Ultraplan Xtra** into a bucket containing 5.75-6 litres of clean water and mix with a low speed electric mixer to obtain a homogeneous, self-levelling lump free mix.

A greater quantity of **Ultraplan Xtra** can be prepared in mortar mixers.

After 2-3 minutes of slackening, the mix should be restirred and is then ready for use.

When **Ultraplan Xtra** is to be used in thicknesses greater than 20 mm (max. 50 mm), it is recommended to add approx. 30% by weight of 0.4-0.8 mm quartz depending on the thicknesses (refer to MAPEI Technical Services Department).

The amount of **Ultraplan Xtra** mixed at any time must be used within 20-30 minutes (at a temperature of +23°C).

### Applying the mix

Apply **Ultraplan Xtra** in a single coat from 1 to 20 mm thick with a large metal trowel or a squeegee, keeping the tool slightly inclined to obtain the desired thickness.

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

Due to its remarkable self-levelling properties, **Ultraplan Xtra** immediately eliminates small imperfections (trowel marks, etc.).

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

**Ultraplan Xtra** is suitable for laying wooden, textile, resilient, ceramic and natural stone floor coverings after 6 hours at +23°C in thicknesses up to 5 mm. In case of thicknesses between 5 and 20 mm, a drying time of approx. 12 hours is required 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 coat of **Ultraplan Xtra** must absolutely be at least 3 mm thick.



## CLEANING

When fresh, **Ultraplan Xtra** can be removed from tools with water.

## CONSUMPTION

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

## PACKAGING

**Ultraplan Xtra** is available in 23 kg bags.

## STORAGE

**Ultraplan Xtra** is stable for 12 months if stored in a dry place.

A longer storage could determine a slower setting time of **Ultraplan Xtra**. However, the performances of the levelling layer at long ages are not significantly modified.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

Keep out of the reach of children. Keep children away from fresh adhesive or installation material. Ensure good ventilation during and after use and drying. Do not eat, drink or smoke when using this product. In case of contact with skin or eyes, rinse immediately with plenty of water. Do not allow product to reach sewage system, water course or soil. Clean tools with soap and water immediately after use. Give only empty containers to recycling. Dried product residues may be disposed of as domestic waste. Product preservative-free; For information for allergic people or the technical data sheet, please call: +39/02/37673.1. Always wear safety glasses. If adhesive or installation material gets into contact with your eyes rinse immediately with plenty of water and see an ophthalmologist. Always wear heavy-duty waterproof gloves to protect your hands. Always wear long trousers. Avoid prolonged skin contact with the adhesive or installation material. Rinse affected areas immediately with plenty of water. The longer fresh adhesive or installation material remains on your skin the greater the risk of severe skin damage.

*The product contains:*

Binders, Mineral fillers, additive (VdI-RL 01/June 2018).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

In compliance with:

– EN 13813 CT-C40-F7-A2<sub>FL</sub>-s1

– French norms: superior quality levelling compound (P<sub>3</sub>) according to UPEC classification

### PRODUCT IDENTITY

Consistency:	fine powder
Colour:	grey
Bulk density:	1,300 kg/m <sup>3</sup>
Dry solids content:	100%
– EMICODE: – Blauer Engel:	EC1 Plus - very low emission DE-UZ 113

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

Mixing ratio:	5.75-6 l of water per 23 kg of powder
Thickness per coat:	from 1 to 10 mm
Self-levelling:	yes
Density of the mix:	1,900 kg/m <sup>3</sup>
pH of mix:	approx. 12
Application temperature range:	from +5°C to +35°C
Pot life:	20-30 minutes
Setting time:	45-60 minutes
Set to light foot traffic:	3 hours
Waiting time before subsequent bonding:	ceramic tiles: 3 h resilient and wooden floors: 6 h up to 5 mm, 12 h up to 20 mm

### FINAL PERFORMANCE DATA

Compressive strength:	
– after 1 day:	20.0 N/mm <sup>2</sup>
– after 3 days:	27.0 N/mm <sup>2</sup>
– after 7 days:	30.0 N/mm <sup>2</sup>
– after 28 days:	40.0 N/mm <sup>2</sup>
Flexural strength:	
– after 1 day:	4.0 N/mm <sup>2</sup>
– after 3 days:	6.0 N/mm <sup>2</sup>
– after 7 days:	7.0 N/mm <sup>2</sup>
– after 28 days:	8.0 N/mm <sup>2</sup>

Resistance to abrasion TABER Abrasimer  
(Abrading wheel H22-550 g-200 revolutions)  
expressed as weight loss:

- after 7 days:
- after 28 days:

1 g  
0.7 g

## 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](http://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 force at the time of the MAPEI product installation.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).*

**ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.**

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