

# ULTRAPLAN TRADE

Fast drying self-levelling compound for thicknesses  
from 3 to 40 mm



## WHERE TO USE

**Ultraplan Trade** 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 Trade** is especially suitable for areas subject to wheeled chairs and for use with underfloor heating systems.

### Some application examples

- 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 substrates, terrazzo, ceramic, natural stone and magnesite floors.

## TECHNICAL CHARACTERISTICS

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

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

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

**Ultraplan Trade** 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 Trade** 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.

**Ultraplan Trade** is characterised by its high thermal conductivity ( $\lambda = 1.5 \text{ W/mK}$ ) which makes it particularly recommended for making heated screeds.

## 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 Trade** for exterior applications.

- Do not use **Ultraplan Trade** on substrates subject to continuous rising damp.
- Do not use as an unbonded screed. **Ultraplan Trade** must always be anchored onto a solid substrate.
- Do not use on metal surfaces.
- Do not apply **Ultraplan Trade** at temperatures below +5°C.

## 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 **Profas**, **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 Trade** after sanding the surface and applying a suitable primer (such as **Primer G** or **Eco Prim T Plus** applied neat or diluted 1:1 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.

### Preparation of the mix

Pour a 25 kg bag of **Ultraplan Trade** into a bucket containing 4.50-4.75 l (18-19%) of clean water and mix with a low-speed electric mixer to obtain a homogeneous, self-levelling, lump-free mix. Larger quantities of **Ultraplan Trade** can be prepared in suitable mixers.

After 2-3 minutes of **Ultraplan Trade** slacking, the mix should be restirred and then it is ready for use.

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

### Spreading the mix

Apply **Ultraplan Trade** in a single coat from 3 to 40 mm with a large metal trowel or rake.

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

Thanks to its remarkable self-levelling characteristics, **Ultraplan Trade** immediately eliminates small imperfections (trowel marks, etc.).

If a second layer is required, we recommend applying it as soon as the first one sets to foot traffic; if the first layer has completely dried and hardened, we recommend applying a suitable primer beforehand.

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

Surfaces smoothed over with **Ultraplan Trade** may be sanded and are ready to bond ceramic flooring after 3-12 hours, stone flooring after 24-48 hours and resilient, textile and wooden flooring after 24-72 hours at +23°C (waiting times may vary depending on the surrounding temperature and level of humidity).

## CLEANING

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

## CONSUMPTION

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

## PACKAGING

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

## STORAGE

Ultraplan Trade 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 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).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Appearance:	fine powder
Colour:	grey
Dry solid content:	100%
EMICODE:	EC1 Plus - very low emission

### APPLICATION DATA

Water mixing ratio:	18-19%
Thickness applicable per coat:	3 to 40 mm per coat
Density of mix with water (kg/m <sup>3</sup> ):	2100
pH of mix:	11
Application temperature range:	+5°C to +30°C
Workability time:	30-40 mins
Set to foot traffic:	3-12 hours
Waiting time before laying:	ceramic: 12 h resilient / parquet: 24-72 h

### FINAL PERFORMANCE

Compressive strength (N/mm <sup>2</sup> )	
– after 1 day:	15
– after 3 days:	20
– after 7 days:	25
– after 28 days:	28
Flexural strength (N/mm <sup>2</sup> ):	
– after 1 day:	3
– after 3 days:	4
– after 7 days:	4.5
– after 28 days:	6

Taber abrasion resistance (wheel H22 - 500 g - 200 revs) expressed as loss in weight (g):  
– after 28 days:

2.5

## 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)**

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4079-10-2022-I-en

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