



# Ultraplan Trade

**Fast drying interior levelling and smoothing compound from 3 to 40 mm per pour**



## CLASSIFICATION ACCORDING TO EN 13813

The material properties of **Ultraplan Trade** comply with the norms referred to in this technical data sheet and are classified as CT-C25-F5-E according to EN 13813.

## WHERE TO USE

**Ultraplan Trade** is used for levelling and smoothing differences in thicknesses from 3 - 40 mm on new or existing substrates, preparing them to receive any type of flooring where a high resistance to loads and traffic is required. **Ultraplan Trade** is especially suitable for areas subject to wheeled chairs. Specifically formulated for use by trade professionals.

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

## Some application examples

- Levelling concrete slabs and engineered screeds such as **Topcem**, **Mapecem**, **Mapecem Pronto** and **Topcem Pronto**.
- Levelling underfloor heating systems.
- Levelling existing concrete, terrazzo, ceramic and natural stone substrates.

## TECHNICAL CHARACTERISTICS

**Ultraplan Trade** is a grey powder consisting of special rapid setting and hydrating cements, blended with graded silica sand, resins and special additives, according to a formula developed in the MAPEI research laboratory.

Mixed with water, **Ultraplan Trade** becomes a fluid and easily workable mortar, perfectly self-levelling, with a high bond strength and ultra-fast drying.

**Ultraplan Trade** can be applied using an automatic pressure pump.

**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.

For thicknesses greater than 40 mm, it is recommended to add up to 50% of graded aggregate from 2 - 5 mm.

Installation of flooring can begin approximately 24 - 72 hours after the application of **Ultraplan Trade**.

## 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 Trade** for exterior levelling works.
- DO NOT use **Ultraplan Trade** on substrates subject to continuous rising damp.
- DO NOT apply an additional coat of **Ultraplan Trade** if the previous layer has completely dried without first applying a coat of **Eco Prim T Plus** diluted 1:2 with water.
- DO NOT use **Ultraplan Trade** on metal surfaces .
- DO NOT use over timber substrates. Alternatively use **Ultraplan Renovation**.
- DO NOT use **Ultraplan Trade** when the temperature is below +5°C.

## APPLICATION PROCEDURE

### Preparing the substrate

Substrates must be dry, solid and free of dirt, loose materials, paint, wax, oils, rust, traces of gypsum, curing and sealing compounds and all other materials which may interfere with bonding. All curing and sealing compounds, irrespective of the type (including dissipating curing compounds) must be completely mechanically removed. A minimum concrete surface profile (CSP) of CSP #3 is required.

If a moisture vapour barrier is required, please contact MAPEI Technical Assistance Department for further details.

Cement based substrates which are not sufficiently solid must be removed or wherever possible consolidated with **Primer MF**.

Cracks or crazing in cement substrates must be repaired with **Eporip** and broadcast with sand while product is still fresh.

Porous substrates must be treated with a primer such as **Eco Prim T Plus** (diluted 1 part primer mixed with 2 parts water) to improve adhesion and to make the substrate uniformly absorbent.

Non-porous substrates (such as ceramic tiles and natural stone) must be carefully cleaned to eliminate traces of wax and then treated with a primer such as **Eco Prim T Plus** (undiluted) or **Eco Prim Grip**.

For all other forms of substrates and for further Surface Preparation information, please refer to **MAPEI's Surface Preparation Requirements brochure – Floor Covering Installation System** available on our website [www.mapei.com.au](http://www.mapei.com.au) or alternatively email [technical-au@mapei.com.au](mailto:technical-au@mapei.com.au) and request a copy.

### Preparing the mix

Pour a 20 kg bag of **Ultraplan Trade** into a bucket containing 3.4-3.8 litres of clean water and mix with a low speed electric mixer to obtain a homogeneous, lump free mix.

Larger quantities of **Ultraplan Trade** 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 Trade** is to be used in thicknesses greater than 40 mm, add up to 50% aggregate (2 - 5 mm). Please consult MAPEI Technical Services for further clarification if required.

The quantity of **Ultraplan Trade** mixed must be used within 20-30 minutes (at a temperature of +23°C).

### Applying the mix

Apply **Ultraplan Trade** in a single coat from 3 - 40 mm thick with a large metal trowel or a squeegee, keeping the trowel slightly inclined to obtain the desired thickness.

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

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

If a second coat of **Ultraplan Trade** 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).

Follow all movement joints present in the substrate and form control joints on large areas for alleviating stress. Contact MAPEI Technical Assistance on Freecall 1800 652 666 for more information if required.

The levelling coat of **Ultraplan Trade** will be ready to receive resilient, carpet, ceramic, and timber floor coverings fixed with adhesives after 24 - 72 hours at +23°C (time can vary depending on the thickness of the levelling, type of covering being installed, the room temperature and humidity).

It is recommended to carefully check the moisture content with an electric moisture meter prior to laying a moisture sensitive flooring.

### Cleaning

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



Installation of **Ultraplan Trade** after first priming the porous concrete substrate using **Eco Prim T Plus** diluted 1:2 with water

## TECHNICAL DATA (typical values)

In compliance with:

- EN 13813 - CT-C25-F5-E
- GREEN STAR™ - Ultraplan Trade can contribute valuable points towards Green Star™ projects due to the very low VOC content of this product. Refer SDS Section 9 for further details

### PRODUCT IDENTITY

Consistency:	fine powder
Colour:	grey
Bulk density (kg/m <sup>3</sup> ):	1,300
Dry solids content (%):	100
GREEN STAR™:	meets and exceeds VOC content g/l - contributes valuable points towards Green Star™ credits

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

Mixing ratio:	17-19% clean water per 20 kg bag of <b>Ultraplan Trade</b>
Thickness per coat:	from 3 to 40 mm
Self-levelling:	yes
Density of the mix (kg/m <sup>3</sup> ):	2100
pH of mix:	approx. 12
Application temperature range:	from +5°C to +35°C
Pot life:	20-30 minutes
Setting time:	50-70 minutes
Set to light foot traffic:	3 hours
Waiting time before subsequent bonding:	24-72 hours

### FINAL PERFORMANCE DATA

Compressive strength (N/mm <sup>2</sup> ):	
- after 1 day:	15
- after 3 days:	18
- after 7 days:	20
- after 28 days:	28
Flexural strength (MPa m <sup>2</sup> ):	
- after 1 day:	3
- after 3 days:	4
- after 7 days:	5
- after 28 days:	5

# Ultraplan Trade



## CONSUMPTION

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

## PACKAGING

Ultraplan Trade is available in 20 kg bags.

## STORAGE

Ultraplan Trade is stable for at least 12 months when stored in a dry, elevated area.

A longer storage (over 12 months) could determine a slower setting time of **Ultraplan Trade**, however the final characteristics of the product do not alter.

PRODUCT FOR PROFESSIONAL USE.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**ULTRAPLAN TRADE** is an irritant; it contains cement that, when in contact with sweat or other body fluids, causes irritant alkaline reactions and allergic reactions to those predisposed.

During use wear protective gloves and goggles and take the usual precautions for handling chemicals. In case of contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet available for download from our website [www.mapei.com.au](http://www.mapei.com.au).

PRODUCT FOR PROFESSIONAL USE

## 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.au](http://www.mapei.com.au)**

## 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.**

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



**All relevant references for the product are available upon request and from [www.mapei.com.au](http://www.mapei.com.au)**

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