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.

Some application examples

- Levelling concrete slabs and cementitious screeds or **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 (λ = 1.5 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 without first priming
- 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 **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 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** slackening, the mix should be re-stirred 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

1.75 kg/m² 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

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	fine powder
Colour	grey
Dry solids content:	100%
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA	
Water mixing ratio:	18-19%, - 4.5-4.75 L per bag
Thickness applicable per coat:	3 to 40 mm per coat
Density of mix with water:	2000 – 2200 (kg/m³)

pH of mix:	11
Application temperature range:	from +5°C to +40°C
Workability time:	30-35 min
Set to foot traffic:	3-12 h
Waiting time before application of the covering: – Ceramic tiles: – Resilient and wood flooring:	 min. 3-12 h min. 24-72 h

FINAL PERFORMANCE	
Compressive strength: – after 1 day: – after 7 days: – after 28 days:	 ≥ 15 MPa ≥ 20 MPa ≥ 25 MPa
Flexural strength: – after 1 day: – after 7 days: – after 28 days:	 ≥ 3 MPa ≥ 5 MPa ≥ 6 MPa
Abrasion resistance - Taber abrader (H 22 disk - 550 g - 200 revs), expressed as loss of weight: – after 28 days:	 2.5 g

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.ae

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, 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.ae.

ANY ALTERATIONS 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

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