

ULTRAPLAN CONTRACT

Self-levelling, fast drying smoothing compound for thicknesses from 1 to 10 mm per coat



WHERE TO USE

Ultraplan Contract, especially suitable for the large building site, is used in interiors for levelling and smoothing differences in thicknesses from 1 to 10 mm on new or existing substrates, preparing them to receive all kinds of flooring where high resistance to loads and traffic is required. **Ultraplan Contract** is especially suitable for areas subjected to castor chairs transit.

Some application examples

- Levelling concrete slabs and cementitious screeds or **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** based screeds.
- Levelling anhydrite substrates.
- Levelling over underfloor heating systems.
- Levelling existing concrete pavements, terrazzo, ceramic and natural stone floors.

TECHNICAL CHARACTERISTICS

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

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

Ultraplan Contract can be spread in thicknesses up to 10 mm in a single application without shrinkage, cracking or crazing, and develops very high compressive and flexural strength, as well as resistance to indentation and abrasion.

Ultraplan Contract is ready to receive flooring after approximately after 3 hours in case of ceramic tiles and 24 hours in case of resilient and wood flooring.

Ultraplan Contract has very low emissions of volatile organic compounds (EMICODE EC1 Plus).

RECOMMENDATIONS

- Do not add more water to the mix once it starts to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use **Ultraplan Contract** for exterior applications.
- Do not use **Ultraplan Contract** on substrates subject to continuous rising damp.
- If a coat of **Ultraplan Contract** needs to be applied once the preceding one is completely dry, first apply a suitable primer (such as **Eco Prim T Plus** or **Primer G**).
- Do not apply **Ultraplan Contract** at temperatures below +5°C.
- Do not apply **Ultraplan Contract** in thicknesses less than 3 mm when wooden flooring needs to be installed.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must comply with the specifications contained in the locally applicable standards.

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 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 with up to 1:4 with water, to hold the dust and even out the absorbency of the substrate.

Anhydrite screeds may be levelled off with **Ultraplan Contract** only after having sanded the surface and having applied 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.

Preparing the mix

While mixing with a low speed mixer, pour in a container containing 5.75-6 l (24-25%) of clean water a 24 kg bag of **Ultraplan Contract** to obtain a homogeneous, lump free mix.

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

After 2-3 minutes of **Ultraplan Contract** slackening, the mix should be re-stirred and then it is ready for use.

It is recommended to add approximately 20-30% of sand with a grain size of 0/4 or 0/8 when **Ultraplan Contract** is used for thicknesses greater than 10 mm (max. 20 mm). For further information consult MAPEI Technical Services Department.

Make sure to prepare a quantity of **Ultraplan Contract** that can be applied within 20-30 minutes (at +23°C).

Spreading the mix

Apply **Ultraplan Contract** in a single coat from 1 to 10 mm with a large metal trowel or rake by keeping the trowel slightly inclined to obtain the desired thickness. **Ultraplan Contract** can also be applied with an automatic pressure pump for renders. Due to its remarkable self-levelling properties, **Ultraplan Contract** immediately loses small imperfections (trowel marks, etc.).

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

Ultraplan Contract is suitable to receive all kind of floor coverings after 3 hours in case of ceramic tiles and 24 hours in case of resilient and wood flooring, at +23°C (the time can vary, depending on the room temperature and humidity).

CLEANING

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

CONSUMPTION

1.6 kg/m² per mm of thickness.

PACKAGING

Ultraplan Contract is available in 24 kg bags.

STORAGE

Ultraplan Contract stored in a dry place is stable for at least 12 months. A long storage period may extend setting time but it does not affect the final performance.

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.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:

fine powder

Colour:	grey
Dry solids content:	100%

APPLICATION DATA

Mixing ratio (with water):	24-25%, - 5.75-6 l per bag
Thickness per coat:	1-10 mm per coat
Density of mix:	2000 kg/m ³
pH of mix:	12
Application temperature range:	from +5°C to +35°C
Pot life:	20-30 min
Set to Light Foot Traffic:	min. 3 h
Waiting time before application of the covering:	
- Ceramic tiles:	min. 3 h
- Resilient and wood flooring:	min. 24 h

FINAL PERFORMANCE

Compressive strength:	
- after 1 day:	12 Mpa
- after 7 days:	22 Mpa
- after 28 days:	32 Mpa
Flexural strength:	
- after 1 day:	3 Mpa
- after 7 days:	5 Mpa
- after 28 days:	6.5 Mpa
Abrasion resistance - Taber abrader (H 22 disk - 550 g - 200 revs), expressed as loss of weight:	
- after 7 days:	2.5 g
- after 28 days:	2 g



Primer application on the substrate



Ultraplan Contract application

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

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.

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