UC LEVELLER MAXI

Levelling and smoothing compound for thicknesses from 10 - 100 mm. Ideal for areas of high build with controlled flow

CLASSIFICATION ACCORDING TO EN 13813

The material properties of **UC Leveller Maxi** comply with the norms referred to in this technical data sheet and are classified as C35-F7 $A2_{FL}$-S1 according to EN 13813.

WHERE TO USE

UC Leveller Maxi is used for levelling and smoothing new or existing substrates prior to the installation of carpet, carpet tiles, vinyl/LVT, ceramic tiles, natural stone or floating timber flooring. **UC Leveller Maxi** is especially formulated for areas of high build with controlled flow. **UC Leveller Maxi** is used in areas where resistance to heavy loads and traffic is required, along with an especially smooth surface. **UC Leveller Maxi** can be used in interiors in thicknesses from 10 - 100 mm as a bulk-filling underlayment compound.
Because of its levelling properties and ease of pumpability, UC Leveller Maxi increases daily productivity and considerably reduces the cost of substrate preparation.

Some application examples

· Smoothing concrete slabs.
· For high thickness with low flow for easier control.
· Smoothing for under-floor heating installations.
· Smoothing over existing ceramic tile, terrazzo and natural stone.

TECHNICAL CHARACTERISTICS

UC Leveller Maxi is a grey powder composed of special fast-setting and hydrating cements, specially graded sand, resins and special additives prepared according to a formula developed in the MAPEI research laboratories.
UC Leveller Maxi has excellent self-levelling properties and cures rapidly. **UC Leveller Maxi** can be applied using an automatic pressure pump.
UC Leveller Maxi is strong enough to withstand wheeled chair traffic. Each coat of **UC Leveller Maxi** can be applied in thicknesses of up to 100 mm without significant shrinkage that might cause cracks or crazing. Once completely dry **UC Leveller Maxi** has excellent compressive and flexural strength as well as resistance to impact and abrasion.
Flooring can be installed once **UC Leveller Maxi** has dried (12 hours for light foot traffic and 1-3 days waiting time before installing flooring), depending on the thickness, installation conditions (e.g. temperature/ humidity), and choice of flooring.

RECOMMENDATIONS

· DO NOT add more water to the mix once it has begun to set
· DO NOT add any aggregate to the mix
· DO NOT add lime, cement or gypsum to the mix
· DO NOT use for smoothing in exteriors or for substrates subject to rising damp
· DO NOT apply another coat of **UC Leveller Maxi** once the previous one has completely dried without first applying **Eco Prim T Plus** diluted with 2 parts water.

· DO NOT use **UC Leveller Maxi** at temperatures below +5°C and above +35°
· Follow all movement joints present in the substrate and form control joints on large areas for alleviating stress. Contact MAPEI Technical Assistance for more information if required.
· DO NOT use for levelling over timber substrates. Instead use **Ultraplan Renovation**, **Latexplan Trade** or **Nivorapid** mixed with **Latex Plus**
· DO NOT apply **UC Leveller Maxi** in thicknesses less than 10 mm

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**.
Porous substrates and anhydrite screeds must be treated with **Eco Prim T Plus** diluted 1 part primer mixed with 2 parts water to promote 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 or alternatively email technical-au@mapei.com.au and request a copy.

Preparing the mix

Pour 2.2 - 2.6 litres of clean water into a container and gradually add the 20 kg bag of **UC Leveller Maxi**. For controlled flow application, use low side of water at 2.2 L. Mix continuously at low speed with an electric mixer (300 RPM) until a homogenous lump free mix is obtained. Larger quantities can be mixed in a mortar mixer. Let the mix sit for a few minutes and then mix again briefly without adding any more water or powder. The mix is now ready to be applied. The mixed batch of **UC Leveller Maxi** must be used within 20 to 30 minutes (at a temperature of +23°C).

Spreading the mix

Spread **UC Leveller Maxi** in a single coat from 10-100 mm thick with a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness. **UC Leveller Maxi** can also be applied with a pump. When a second coat is required, it is recommended to apply it as soon as the previous coat can be walked on (approx. 3 hours at +23°C).

Installing the flooring

Ceramic, natural stone, floating timber/ laminate and textile floorcoverings can be installed once the **UC Leveller Maxi** dries (12 hours for light foot traffic and 1-3 days waiting time before installing the flooring), depending on the thickness, installation conditions (e.g. temperature/humidity), and choice of flooring. Depending on the finish achieved, vinyl or rubber floorcoverings may need a 3 mm layer of **Ultraplan** or **Ultraplan Eco** prior to installation.
If bonded timber flooring is to be installed, apply a minimum coat of 3 mm of **Ultraplan/ Ultraplan Eco** over the already installed **UC Leveller Maxi**. Allow the **UC Leveller Maxi** to dry and then apply a diluted coat of **Eco Prim T Plus** (1 part primer to 2 parts water) prior to installing the **Ultraplan/ Ultraplan Eco** levelling compound.

Cleaning

While **UC Leveller Maxi** is still wet, hands and tools can be cleaned with water.

CONSUMPTION

2 kg/m2 per mm of thickness.

PACKAGING

UC Leveller Maxi is available in 20 kg bags.

STORAGE

12 months in original sealed packaging. Over longer periods the product may set less rapidly without changing its final performance results. Store in a dry, elevated area and protect from moisture.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website - www.mapei.com.au
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

In compliance with: - EN 13813 C35-F7 A2FL S1

PRODUCT IDENTITY	
Consistency:	fine powder
Colour:	grey
Bulk density (kg/m³):	1,250
Dry solids content (%):	100
GREEN STAR™:	meets and exceeds - very low VOC content g/l - contributes valuable points towards Green Star™ credits

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	11-13 parts water to 100 parts **UC Leveller Maxi** by weight
Thickness (mm):	from 10 -100
Self-levelling:	yes
Density of mix (kg/m³):	2,250
pH of mix:	> 12
Application temperature range:	from +5°C to +35°C
Setting time:	2-4 hours
Set to light foot traffic:	12 hours
Waiting time before installing flooring:	1-3 days

FINAL PERFORMANCES	
Compressive strength (EN 196) N/mm²): **- after 1 day** **- after 3 days** **- after 7 days** **- after 28 days**	 20 22 25 >35
Compressive strength (EN 196) N/mm²): **- after 1 day** **- after 3 days** **- after 7 days** **- after 28 days**	 4.0 4.5 5.5 7.5

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.au.

LEGAL NOTICE

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

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