UNIPLAN 380 TDR

Pumpable ultra-fast drying, fibre-reinforced, dust-reduced, cement-based, self-levelling compound for thicknesses from 5 to 50 mm per layer





BENEFITS AND FEATURES

- Application thickness from 5 to 50 mm per layer
- Dust-reduced
- Suitable for hand- or pump application
- Very good self-levelling properties
- Very good surface finish
- Ready for covering after 4 hours
- Fibre-reinforced
- Suitable for heated floors
- Suitable for flat levelling and slope building
- High bonding strength to the substrate
- High compressive and flexural strength
- Suitable for all kinds of floorings, resilient, textiles, floating parquet and laminate, ceramic and natural stone, glued multi-layer parquet and glued solid hardwood flooring
- Very low emissions - EMICODE EC1 Plus
- Product-specific EPD
- Residual Greenhouse Gas emissions fully offset

CO_2e FULLY OFFSET PRODUCTS

Residual Greenhouse Gas emissions measured throughout the life cycle of this product using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset for the year 2026 through the acquisition of carbon credits in support of forestry protection projects. For more details on emission calculations and offsetting projects, visit mapei.com.

CLASSIFICATION ACCORDING TO EN 13813

Uniplan 380 TDR is a self-levelling compound, as described in this technical data sheet; it is classified as CT-C35-F7-$A1_{FL}$ according to European norm EN 13813 *"Screed material and floor screeds - Screed material - Properties and requirements"*.

WHERE TO USE

Uniplan 380 TDR is intended for interior use for levelling and smoothing differences in thicknesses from 5 to 50 mm on new or existing substrates in residential housing, offices, commercial and public buildings where specific requirements for very fast floor covering installation are needed. It can be used with mechanical adhesion to the substrate.
Uniplan 380 TDR is suitable for heated floors and can be used for embedding electrical or waterborne underfloor heating in dry and wet rooms.
Uniplan 380 TDR is suitable to receive all kinds of resilient floor covering types, floating parquet and laminate, ceramic and natural stone as well as glued multi-layer parquet and glued solid hardwood flooring.

Some application examples

- Levelling cementitious levelling compounds or screeds.
- Levelling concrete slabs, lightweight concrete, leca slabs, old terrazzo, ceramic and natural stone slabs.
- Levelling gypsum-based substrates.
- Levelling and embedding underfloor heating systems.
- Levelling old and new wooden substrates; timber floors, cross-laminated timber, floorboards, parquet, chipboards for floors, plywood boards on solid well-braced joists.

TECHNICAL CHARACTERISTICS

Uniplan 380 TDR is a grey powder made up of special binders with rapid setting and hydration, with selected graded sand, polymers and special additives prepared according to a formula developed in MAPEI's own R&D laboratories.
When mixed with water, **Uniplan 380 TDR** becomes a fluid and easily workable self-levelling compound and with high bonding strength to the substrate.

RECOMMENDATIONS

- Do not add more water to a mix which has already begun to set.
- Do not add lime, cement, gypsum, or other binders to the mix.
- Do not use **Uniplan 380 TDR** on exterior levelling works.
- Do not use **Uniplan 380 TDR** on substrates subject to continuous capillary rising damp (contact MAPEI Technical Services Department).
- Do not use **Uniplan 380 TDR** on dusty or crumbling surfaces, or on surfaces with oil or grease stains.
- Do not use **Uniplan 380 TDR** when the temperature is below +10°C.
- Do not use **Uniplan 380 TDR** on textiles or on other deformable substrates such as asphalt (contact MAPEI Services Department).
- For adhesion to metal substrates contact MAPEI Services Department.
- Do not use **Uniplan 380 TDR** as a final wearing top layer.
- **Uniplan 380 TDR** must be covered with a suitable floor covering as soon as conditions permit. For drying-out requirements of substrates and **Uniplan 380 TDR** before installation of floor covering, refer to current requirements according to local standard.
- The finished, hardened surface must be prepared according to the covering manufacturer's recommendations.
- If **Uniplan 380 TDR** will be left uncovered for more than 3 days after application, the surface must be protected with a suitable curing membrane or plastic foil.

- Do not apply an additional layer of **Uniplan 380 TDR** when the previous one is completely dry; in this case, before applying any further levelling layers, first prime the surface with a suitable primer such as **Primer E-10** (diluted 1:1 with water), **Primer G** (diluted 1:1 with water) or **Eco Prim T Plus** (diluted up to 1:4 with water). Wait at least 24 hours (at +23°C and 50 % RH) and make sure the surface is dry enough to absorb the primer.
- Do not expose the surface to draughts or direct sunlight before, during and 1 to 3 days after application.
- Do not use dehumidifiers before, during and 3 days after application.
- Do not use gas heating before, during and after application.
- Do not turn on electrical underfloor heating three days before to one to two weeks after application of the levelling compound (when tiling, electrical underfloor heating may normally be turned on only 28 days after tile grouting). Waterborne underfloor heating may be turned on at ambient temperature when applying the levelling compound. Approx. one week after laying, the heat can be gradually increased to operating temperature.
- The specified minimum layer thickness of 5 mm applies to local high points. When applying large areas with a mixer pump or pump truck, and where the substrate is relatively flat, a layer thickness of at least 10 mm is recommended to achieve a satisfactory result.
- Always install a waterproofing membrane on top of the compound in wet rooms.
- Temperature and relative humidity should always be measured and recorded in the laying protocol before application.
- The material in powder form should be stored in heated areas prior to application. Strongly cooled material carries the risk that certain additives will not be able to dissolve properly during mixing. Too high temperature in the material changes the flow properties, e.g. that the material gets a shorter processing time and sets too early.
- For application of **Uniplan 380 TDR** on floating floors, contact MAPEI Technical Services Department.

APPLICATION PROCEDURE

Preparing the substrate

Substrates must comply with the specifications contained in the applicable local standards.
Substrates must be sound and have sufficient load-bearing capacity, be dry, clean, and free of all traces of dust, laitance, loose or detached parts, paints and varnishes, wax, grease, oil, rust, gypsum residues and all other pollutants that can reduce adhesion. Remains of old coverings and coatings, and other pollutants should be removed mechanically, if necessary, for example by shot blasting, milling, or grinding. Cementitious-based surfaces that are not sufficiently sound must be removed or, where possible, consolidated with a suitable MAPEI-system (such as **Eco Prim PU 1K**, **Primer MF EC Plus** or **Primer 3296**). Finish off by thoroughly vacuuming the substrate.
Surface tensile strength of the substrate must be at least 0.5 N/mm² (MPa).
Repair any cracks present in the substrate with **Mapepoxy BI-IMP** or a suitable injection product, and where required reinforce with **Rete 320**.
Use height marks to determine the level that is required to achieve the prescribed floor tolerances for the finished floor according to local standard.
Use dividers to divide the area of application into sections if needed.

Priming the substrate

Prime concrete and cementitious-based substrates with a suitable primer such as **Primer E-10** (diluted 1:1 with water), **Eco Prim T Plus** (diluted up to 1:4 with water), or **Primer G** (diluted 1:1 with water), see technical data sheet for more information, to hold the dust, to achieve sufficient adhesion and to equalize absorption in the substrate. The primer can be applied with a brush, roller, or spraying device. The primer should be brushed or rolled thoroughly into the substrate. When spraying, smooth out the primer with a brush. Please note to avoid puddles from forming. Ensure the primer is dry before applying the levelling compound, always refer to the drying time reported in the technical data sheet. Pores and pinholes are usually the result of insufficient, thin or over-diluted priming, low substrate temperature or a combination of all these. The primer should have dried sufficiently before application of **Uniplan 380 TDR**. If it takes more than 3 - 4 hours for the primer to dry, indicates that the drying conditions are not good enough for it to dry out correctly or that the substrate is not able to absorb the primer properly.
Gypsum-based screeds may only be levelled off with **Uniplan 380 TDR** after sanding the surface and applying a suitable primer such as **Eco Prim T Plus** (diluted up to 1:2 with water) or **Primer G** (undiluted).
Prime existing ceramic and natural stone substrates with a coat of a suitable primer such as **Eco Prim T Plus** or **Eco Prim Grip Plus** after cleaning the surface with a suitable detergent and, if required, abrading the surface

mechanically. Alternatively prime with a suitable resin-based primer, such as **Mapeprimer M** or **Primer SN**, followed by a full broadcast of dry quartz sand **Sand 0.8 - 1.2 mm**. Remove excess quartz sand with vacuuming. Wooden substrates must be clean and solidly fixed; any paints, oil or waxes must be removed, and open joints must be sealed with a suitable MAPEI patching compound prior to the application of **Uniplan 380 TDR**.

Preparing the mix

Pour the content of a 20 kg bag of **Uniplan 380 TDR** into a container with 3.6 liters of clean water (18 %) and continue mixing with a low-speed electric mixer for min. 2 - 3 minutes until a homogenous, flowable, lump-free mix is formed. Let it stand for 2 - 3 minutes and before applying, remix the blend for a few minutes more.
Uniplan 380 TDR can also be mixed using a suitable automatic mixer pump with min. 40 m hose length. Set the water content to 18 %. During mixing, check the water content by testing the flow ratio. If the water content is correct, the flow ratio should be 130 - 140 mm (acc. to EN 12706, flow ring 30 x 50 mm) or 140 - 155 mm (acc. to SS 923519, flow ring 50 x 22 mm). While testing the flow ratio, also check that the mix is free of separation and completely homogenous before applying. Smoothen the mix within approx. 20 minutes (at approx. +23°C and 50 % RH).
The pot life of the mix varies according to the temperature and reduces as the temperature increases. Do not add more water than the amount required to achieve a good result. Too much water will cause separation and reduce the strength properties of the compound which again could lead to a weaker surface as well as higher shrinkage which increases the risk for cracks. For slope applications, the water content can be reduced.

Applying the mix

Spread **Uniplan 380 TDR** by hand or with a pump in a single layer of 5 to 50 mm, and whilst working smooth the surface with a wide toothed spatula or trowel to obtain a smooth finish, and to remove any foam in the surface layer and streaks from the hose.
Make sure that the material is cast in a regular, continuous flow without interruptions, to avoid defects in flatness. Adapt the width of the spread to the capacity of the mixer pump and layer thickness, normally as a rule of thumb no more than 8 - 10 meters without dividers. If there are high demands for flatness of the surface, the width should be as narrow as possible.
The levelling layer of **Uniplan 380 TDR** will be ready to receive resilients, carpet, ceramic and multi-layer and hard-wood floor coverings fixed with adhesives after 4 hours at +23°C, 50 % RH and certain air exchange (time can vary depending on the thickness of the levelling layer, the ambient room temperature and humidity).
If **Uniplan 380 TDR** will be left uncovered for more than 3 days after application, the surface must be protected with a suitable curing membrane or plastic foil.
Carefully check the moisture content of the levelling layer and that the entire floor construction below the levelling compound is sufficiently dry before applying adhesive and surface covering. Follow the guidelines in the local standard.
For moisture-sensitive surface coverings such as wood follow the guidelines from the adhesive- and wooden flooring manufacturer.
Under good drying conditions (+23°C and 50 % RH), the drying time to achieve 85 % RH in the levelling layer is calculated at approx. 1 week per cm layer thickness.
Moisture measurement must be performed to obtain an accurate RH %.

CLEANING

Remove **Uniplan 380 TDR** from tools and equipment with water whilst still fresh. Hardened material must be removed mechanically.

CONSUMPTION

1.8 kg/m^2 per mm thickness.
5 mm = 9.0 kg/m^2.
10 mm = 18.0 kg/m^2.

PACKAGING

Uniplan 380 TDR is available in 20 kg bags.

STORAGE

Uniplan 380 TDR remains stable for 6 months if stored in its original packaging in a cool dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website **www.mapei.no**

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

In compliance with: – EN 13813 CT-C35-F7-A1$_{FL}$

PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Bulk density:	1200 kg/m^3
Dry solids content:	100 %
Grain size (D_{max}):	1.0 mm
Emissions:	EC1 Plus – very low emission

APPLICATION DATA (at +23°C and 50 % RH)	
Layer thickness per coat:	from 5 - 50 mm
Recommended water amount:	3.6 liters per 20 kg bag (18 %)
Density of mix:	2150 kg/m^3
pH-value of mix:	approx.12
Application temperature range:	from +10°C to +30°C
Pot life:	approx. 30 minutes
Setting time:	30 - 60 minutes
Set to light foot traffic:	1 - 3 hours
Ready for covering:	4 hours
Flow ratio at 18 % water (EN12706 – ring 30x50 mm):	130 - 140 mm
Flow ratio at 18 % water (SS923519 – ring 50x22 mm):	140 - 155 mm

FINAL PERFORMANCES

Performance characteristics	Test method	Requirements according to EN 13813 for cementitious screeds	Typical values	
Compressive strength:	EN 13892-2	5 < N/mm² < 80 (after 28 days)	**+23°C**	
			24 hours	20 N/mm²
			7 days	30 N/mm²
			28 days	40 N/mm²
Flexural strength:	EN 13892-2	1 < N/mm² < 50 (after 28 days)	**+23°C**	
			24 hours	4 N/mm²
			7 days	7 N/mm²
			28 days	9 N/mm²

Surface tensile strength (pull-off):	GBR Trade Standard		28 days	> 2.0 N/mm^2 (MPa)
Adhesion to concrete:	EN 13892-8			> 1.0 N/mm^2 (MPa)
Density of hardened material:			**+23°C** 28 days	2050 kg/m^3
Shrinkage:	EN 13454-2 EN 13872	> 10 mm	**+23°C** 28 days	< 0.6 ‰ (mm/m)
Reaction to fire:	EN 13501-1	Value declared by producer	$A1_{FL}$	
pH-value of hardened material:			approx. ≤ 9	

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 web site www.mapei.no

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ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

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