



# Planitex D10



**Alpha hemi-hydrate based self-levelling, very low emission (VOC), chromate free, pumpable (or notched trowel applied) floor smoothing compound for thicknesses from 1 to 15 mm**

## WHERE TO USE

**Planitex D10** is a self-levelling, very low emission (VOC), notched trowel or pump applied, chromate free floor smoothing compound for skimming, smoothing and levelling especially on calcium sulphate flow screeds and calcium sulphate screeds as well as gypsum screeds in domestic and commercial areas under normal loading in interiors from 1 to 15 mm. Also suitable for magnesium/magnesite screeds and asphalt screeds laid according to standards as well as existing terrazzo, tile and natural stone substrates.

**Planitex D10** will take textile coverings, needle fibre, PVC, rubber and linoleum coverings and is suitable from 1.5 mm for underfloor heating and wheeled chair traffic conforming to standards.

## Some application examples

- For skimming and smoothing screeds based on gypsum, alpha hemi-hydrate to shorten the waiting times between priming and smoothing.
- For skimming and smoothing of dry screeds and dry building elements (especially those based on gypsum).
- Levelling of screeds with magnesium binders, asphalt and existing terrazzo, tile and natural stone substrates.
- Skimming and levelling small areas of bituminous substrates (fine asphalt concrete etc.) in thicknesses from maximum 2 mm.

## TECHNICAL CHARACTERISTICS

**Planitex D10** is a light beige powder consisting of alpha hemi-hydrate - calcium sulphate, rapid hydrating

components, specially selected quartz sands to defined grain sizes, resins and special binder combinations.

**Planitex D10** is chromate free, very low in emissions (VOC) and contains no cement.

Due to its optimum pH value, skin irritation is eliminated. The usual extra waiting time of min. 24 hours following priming of gypsum based substrates need not be observed.

When mixed with water **Planitex D10** is a notched trowel applied, very smooth, easy to use, self-levelling compound with optimum bonding.

Crack and shrinkage free smoothing can be achieved from 1 to 15 mm with **Planitex D10**.

Suitable for wheeled chair traffic from a thickness of 1.5 mm.

After proper drying it has exceptional compressive and flexural strength and resistance to indentation and abrasion.

After approx. 24 hours (dependant on background and temperature condition, up to 5 mm thickness) all types of floor coverings can be laid on to properly applied **Planitex D10** (with the exception of directly bonded parquet, sheet coverings and laminate).

A residual moisture in the levelling coat of < 0.5 CM% (carbide hygrometer) for laying impervious finishes and < 1 CM% (carbide hygrometer) for laying porous finishes is deemed acceptable.

For thicknesses between 5 and 15 mm the acceptability for laying finishes should be determined by (carbide hygrometer) measurements.

## RECOMMENDATIONS

Do not use **Planitex D10**:

- in external areas or wet rooms;

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- on substrates with overly high residual moisture or bases laid direct to earth without appropriate waterproofing against rising damp;
- on bonded screeds where re-wetting is anticipated from moisture in the sub-floor;
- on highly absorbent substrates without the relevant primer to prevent the correct hydration of the levelling compound (orange peel effect);
- at temperatures below +5°C or over +35°C and a relative humidity of 75%. Lower temperatures and higher humidity lengthens whereas higher temperatures and lower humidity shortens the setting time;
- for smoothing sand: cement screeds or MAPEI rapid screeds. Use MAPEI cement-based levelling compounds;
- for receiving parquet;
- at high room temperatures, in direct sunshine or draughts.

Use the appropriate MAPEI specialist product in these cases.

- Do not add additional water once setting has begun.
- Do not mix **Planitex D10** with binders (e.g. lime, gypsum, cement) or other levellers including proprietary dry mortars.
- If building up layers, wait until the first layer is traffickable or if the levelling coat is allowed to harden, prime between coats with the recommended primer.
- Sanded **Planitex D10** - prime the levelling compound with a suitable MAPEI primer before adhering coverings.

## APPLICATION PROCEDURES

### Substrate preparation

With regard to suitability of coverings, substrates must conform to the requirements of BS 8203 and BS 8204.

Furthermore it must be assured that there is no active rising damp.

Floating screeds and substrates subject to rising damp must be waterproofed, on the building side against rising damp, to the relevant standards.

Cracks and stress relieving joints (fraction joint) in the substrate should be treated with a suitable MAPEI epoxy resin or polyester resin adhesive system (see product information). Surface weaknesses must be removed or, where possible, consolidated with a suitable MAPEI system product (see product information).

Screed repairs or extensions can be carried out in fast track with a suitable MAPEI rapid screed.

The choice of primer depends on the requirements and the type of smoothing (see the relevant product information).

Please contact the Technical Service Department for other special substrates.

### Mixing

Mix 25 kg **Planitex D10** with a rotating drill mixer in approx. 6-6.5 litres of clear, cold water for a minimum of 2 minutes.

A slowly rotating paddle (max. 600 rpm) with a suitable mixer (twin paddle mixer is best) is recommended in order to achieve a homogenous lump free mix.

After observing a few minutes standing time, mix through again.

Dependant on temperature, the mixed mortar is workable for up to 30 minutes (notched trowel approx. 15 minutes).

### Practical application

Spread **Planitex D10** in thicknesses from 1 to 15 mm with a steel float or notched trowel.

When levelling/smoothing gypsum based screeds, including anhydrite screeds, it is recommended that the screed is first treated with **Primer G** diluted 1:1 with water.

**Planitex D10** is suitable for wheeled chair traffic, when applied at thicknesses greater than 1.5 mm.

The optimum levelling properties of **Planitex D10** evens out small irregularities e.g. trowel marks.

If a second coat is required it should be applied when the first coat can be trafficked (approx. 3 hours at +23°C).

Coats of **Planitex D10** up to 5 mm can be overlaid after approx. 24 hours (at +23°C) and can be covered with all types of flooring (except timber and parquet).

A residual moisture in the levelling coat of < 0.5 CM % (carbide hygrometer) for laying impervious finishes and < 1 CM % (carbide hygrometer) for laying porous finishes is deemed acceptable.

**Note:** If **Planitex D10** is sanded after laying it is necessary to prime with the appropriate MAPEI system primer (mix ratio 1:2) before bonding coverings.

### Cleaning

Whilst product is still wet, hands and tools can be easily cleaned with clean water.

Once set, product can only be removed mechanically.

### COVERAGE

Approx. 1.5 kg/m<sup>2</sup>/mm thickness.

### PACKAGING

25 kg paper bags.

### SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

**Planitex D10** contains gypsum, is pH neutral and chromate free. Do not allow the product to dry on the skin. Wash off on contact with skin. If swallowed seek medical advice and show Safety or Technical Data Sheet.

### Disposal

Completely empty the packaging. Packaging and product residues should be disposed of according to our disposal advice and the local guidelines.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

<b>Consistency:</b>	powder
<b>Colour:</b>	light beige
<b>Bulk density (kg/m<sup>3</sup>):</b>	1140
<b>Solids content (%):</b>	100
<b>Storage:</b>	6 months in original unopened packaging in cool dry areas
<b>Hazard classification according to EC 1999/45:</b>	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
<b>EMICODE:</b>	EC 1 - very low emission

### PROPERTIES OF THE FRESH MORTAR (at +23°C and 50% RH)

<b>Mix ratio:</b>	approx. 6-6.5 litre water per 25 kg <b>Planitex D10</b> or 24-26 parts water to 100 parts powder
<b>Density of the mix (kg/m<sup>3</sup>):</b>	approx. 2000
<b>Bed thickness (mm):</b>	1-15
<b>Flow properties:</b>	self flowing
<b>pH value:</b>	neutral
<b>Application temperature:</b>	from +5°C to +30°C
<b>Working time:</b>	approx. 30 minutes. (15 minutes with notched trowel)
<b>Set to light foot traffic:</b>	after approx. 3 hours
<b>Ready for use:</b>	after approx. 24 hours. (maximum thickness 5 mm. Moisture measurements necessary in thick coats)

### PROPERTIES OF THE SET MORTAR

<b>Compressive strength to EN 196 (N/mm<sup>2</sup>):</b> – after 28 days:	25
<b>Flexural strength to EN 196 (N/mm<sup>2</sup>):</b> – after 28 days:	8
<b>Underfloor heating:</b>	suitable
<b>Wheeled chairs:</b>	suitable from 1.5 mm (to DIN 68 131 and Austrian standard 5208)

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FOR PROFESSIONALS.

## WARNING

*While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.*



This symbol is used to identify Mapei products which do not contain solvents, and which give off a low level of volatile organic compounds (VOC); proof of MAPEI's commitment in safeguarding the environment.



This symbol is used to identify MAPEI products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegetwerkstoffe e.V.), an international organisation for controlling the level of emissions from products used for floors.

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

(U.K.) A.G. BETA

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525-6-2006