

# FIBERPLAN

Ultra-fast hardening self-levelling fibre-reinforced smoothing compound from 3 to 10 mm



## CLASSIFICATION ACCORDING TO EN 13813

**Fiberplan** smoothing compound as described in this technical data sheet is classified as CT-C25-F7-A2<sub>FL</sub>-s1 according to European norm EN 13813.

## WHERE TO USE

**Fiberplan** is used for interior levelling, smoothing and removing differences in thickness from 3 to 10 mm on properly fixed timber substrates and wooden boards, where good resistance to loads and traffic is required. **Fiberplan** is suitable for wheeled chair traffic and for underfloor heating systems.

**Fiberplan** can only be used internally.

### Some application examples

- Smoothing old and new timber floors, floor boards, chip-board panels, plywood, parquet.
- Smoothing cementitious, terrazzo, old ceramic tiles and natural stone substrates.

## TECHNICAL CHARACTERISTICS

**Fiberplan** is a grey coloured powder consisting of special cements with rapid setting and hydration, synthetic fibres, graded silica sand, resins and special admixtures prepared according to a formula developed in the MAPEI research laboratories.

**Fiberplan**, when mixed with water, produces a very smooth easily workable paste, perfectly self-levelling, with high adhesion to the substrate and extremely rapid drying.

**Fiberplan** can be spread in thicknesses from 3 mm to 10 mm per coat without shrinkage, cracking and crazing, and develops very high compressive and flexural strength, as well as resistance to indentation and abrasion.

**Fiberplan** is ready to receive ceramic tiles after approx. 3 hours. Resilient and wooden floors can be installed approx. 12 hours after the application.

## RECOMMENDATIONS

- Do not add more water to the mix that has already begun to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use for exterior levelling work.
- Do not use on substrates that are subject to continuous rising damp.

- If another layer is required, the previous coat must be completely dry. Before application of the second layer, apply a suitable primer.
- Do not use on metal surfaces.
- Do not use **Fiberplan** in temperatures below +5°C.

## APPLICATION PROCEDURE

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### Preparing 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.

Timber substrates must be perfectly clean and solidly fixed to the substrates.

The moisture in wood substrates must be at a level which is typical for equilibrium with the ambient conditions.

Where the floor is formed by wooden boards with open joints, they must be sealed with **Planipatch** or **Planipatch Xtra** mixed with **Latex Plus** prior to the application of **Fiberplan**.

Having sanded the substrate and removed the dust, prime the wood substrate with **Eco Prim T Plus**.

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 **Fiberplan** after sanding the surface and applying a suitable primer (such as **Primer G** undiluted or **Eco Prim T Plus** diluted up to 1:2 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 stirring mechanically, pour a 25 kg bag of **Fiberplan** into a bucket containing 6.3-6.8 litres of clean water and mix with a low speed electric mixer until a homogenous, lump free, self-levelling paste is obtained.

Allow to slack for 2-3 minutes, then briefly remix the paste after which it is ready for use.

The quantity of **Fiberplan** to be mixed at any time should be the amount required for use within 20-30 minutes (at a temperature of +23°C).

### Spreading the mix

Spread **Fiberplan** in a single coat of 3 to 10 mm with a large metal trowel or with a rubber spreader, leaving the trowel slightly inclined to obtain the desired thickness.

Due to its extraordinary self-levelling characteristics, **Fiberplan** immediately loses the imperfections (trowel marks, etc.).

Whenever a second coat is required it should not be applied before the first coat can be walked on (approximately 3 hours at +23°C).

Surfaces smoothed over with **Fiberplan** may be sanded and are ready to bond ceramic and stone floorings after 3 hours, resilient and wooden flooring after 12 hours at +23°C (waiting times may vary depending on the surrounding temperature and level of humidity).

## CLEANING

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While still fresh, **Fiberplan** can be cleaned from tools with water.

## CONSUMPTION

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Consumption of **Fiberplan** is 1.6 kg/m<sup>2</sup> per mm of thickness.

## PACKAGING

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**Fiberplan** is available in 25 kg bags.

## STORAGE

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**Fiberplan**, stored in a dry place, is stable for at least 12 months.

## 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](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	fine powder
Colour:	pink grey
Specific gravity (g/cm <sup>3</sup> ):	1.1
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission

### APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	25-27 parts water per 100 parts by weight of <b>Fiberplan</b>
Thickness per coat:	3-10 mm
Self-levelling:	yes
Specific gravity of mix (g/cm <sup>3</sup> ):	1.9
pH of the mix:	approx. 12
Application temperature range:	from +5°C to +30°C
Open time:	20 to 30 minutes
Setting time:	45 to 60 minutes
Set to light foot traffic:	3 hours
Waiting time before bonding:	ceramic tiles: 3 h resilient and wooden floors: 12 h

### FINAL PERFORMANCES (at +23°C and 50% R.H.)

Compressive strength (N/mm <sup>2</sup> ):	
– after 1 day:	15.0
– after 3 days:	19.0
– after 7 days:	22.0
– after 28 days:	28.0

Flexural strength (N/mm <sup>2</sup> ):	
– after 1 day:	3.5
– after 3 days:	5.0
– after 7 days:	6.0
– after 28 days:	8.0
Resistance to abrasion: Taber Abrasimeter (H22 disc - 550 g, 200 rpm.) expressed in weight loss:	
– after 7 days:	1 g
– after 28 days:	0.7 g
Brinell hardness (N/mm <sup>2</sup> ):	
– after 1 day:	50
– after 3 days:	65
– after 7 days:	73
– after 28 days:	75

## 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](http://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.

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