

FIBERPLAN

Ultra-fast hardening self-levelling fibre-reinforced smoothing compound



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.

It is possible to proceed with the installation of floorings approximately 24 hours after spreading **Fiberplan**, depending on the ambient temperature and humidity, regardless of the thickness.

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.
- Do not apply another coat of **Fiberplan** after the previous one has completely dried: in this case first apply a primer based on **Primer G** (1 part **Primer G** to 3 parts water).
- Do not use on metal surfaces.
- Do not use **Fiberplan** in temperatures below +5°C.

APPLICATION PROCEDURE

Preparing the substrate

Supports must be dry, sound, free of dust and loose parts, paint, wax, oil, rust and traces of 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 **Nivorapid + Latex Plus** before the application of **Fiberplan**.

Having sanded the substrate and removed the dust, prime the wood substrate with **Mapeprim SP** or **Eco Prim T**. Cementitious surfaces that are not sufficiently solid must be removed or, where possible, consolidated with **Prosfas**, **Primer EP** or **Primer MF**. Cracks and crazings in substrates must be repaired with **Eporip**. Dusty or very porous concrete surfaces must be treated with a coat of **Primer G** (1 part **Primer G** with 3 parts water) or with **Livigum** (1 part **Livigum** with 5 parts water), in order to fix the dust and to provide uniform absorption of the substrate. Anhydrite screeds can be levelled with **Fiberplan** (only after a prior coat of **Primer G**, **Primer EP** or **Mapeprim SP**). On ceramic or natural stone surfaces first apply a coat of **Mapeprim SP** after the surface has been cleaned with detergents and mechanically abraded. Level before **Mapeprim SP** has completely dried (indents must still be possible to make).

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).

Levellings with **Fiberplan** are suitable for the installation of resilient, ceramic and wood flooring bonded after 12-24 hours at +23°C (this time can vary depending on the temperature and humidity of the environment).

CLEANING

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

CONSUMPTION

Consumption of **Fiberplan** is 1.6 kg/m² per mm of thickness.

PACKAGING

Fiberplan is available in 25 kg bags.

STORAGE

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

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Fiberplan is irritant, it contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes.

In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention.

It is recommended to use protective gloves and goggles.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:

fine powder

Colour:

pink grey

Specific gravity (g/cm ³):	1.1
Dry solids content (%):	100
EMICODE:	EC1 R 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 Fiberplan
Thickness per coat:	3-10 mm
Self-levelling:	yes
Specific gravity of mix (g/cm ³):	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:	12-24 hours
FINAL PERFORMANCES (at +23°C and 50% R.H.)	
Compressive strength (N/mm ²): – after 1 day: – after 3 days: – after 7 days: – after 28 days:	15.0 19.0 22.0 28.0
Flexural strength (N/mm ²): – after 1 day: – after 3 days: – after 7 days: – after 28 days:	3.5 5.0 6.0 8.0
Resistance to abrasion: Taber Abrasimeter (H22 disc - 550 g, 200 rpm.) expressed in weight loss: – after 7 days: – after 28 days:	1 g 0.7 g
Brinell hardness (N/mm ²): – after 1 day: – after 3 days: – after 7 days: – after 28 days:	50 65 73 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

511-12-2013 en (IT)

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