

WHERE TO USE

For levelling, raising and smoothing new and existing substrates in interiors, making them ready to receive every type of resilient or textile floor-covering.

Some application examples

- Smoothing concrete substrates or screeds manufactured with Mapecem, Topcem, Topcem Pronto or with anhydrite.
- Smoothing existing bushhammered cement, pavers, ceramic tile, natural stone and magnesium floors
- Smoothing underfloor heating systems.

TECHNICAL CHARACTERISTICS

Planolit is a grey powder composed of special fast-setting cements, select graded silica sands, resins and special blended additives prepared according to a formula developed in the MAPEI research laboratories.

Planolit mixed with water forms a self-levelling easily trowellable paste with high adhesion to the substrate and rapid drying characteristics.

Planolit hardens in thicknesses of up to 5 mm per coat, without appreciable shrinkage and without forming surface cracks or crazing. It develops high

compressive strength, and is highly resistant to indentation and abrasion.

Planolit is recommended for locations subject to moderate traffic (foot traffic or light loads). It is classed as P2-punching strength, according to UPEC standards.

RECOMMENDATIONS

- Do not mix with more water than prescribed in order to obtain greater self-levelling, and do not add more water to a mix that has already begun to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use for smoothing in exterior applications.
- Do not use on substrates subject to rising damp.
- Do not use in thicknesses greater than 5 mm per coat.
- Do not apply another coat of Planolit after the preceding 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 for smoothing metal surfaces.
- Do not use at temperatures below +5°C or above +30°C.

Planolit



Spreading Planolit



Applying Planolit With a trowel

- Be especially careful on very hot or very windy days.
- Do not leave bags of Planolit exposed to sunlight for long periods before using.

APPLICATION PROCEDURE Preparing the substrate

Substrates must be thoroughly dry, sound, free of dust, loose particles, paint, wax, oil, rust and traces of gypsum.

Cement-based surfaces not sufficiently solid must be removed or, where possible reinforced with **Prosfas, Primer EP** or **Primer MF**.

Surface cracks or crazing in concrete surfaces 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.

Anhydrate surfaces can be levelled with **Planolit** only after application of a coat of **Mapeprim SP**, **Primer G** or **Primer EP**.

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 dried completely (indents must still be possible to make).

Preparing the mix

Pour a bag of **Planolit** into a bucket containing 6-6.5 I of clean water and mix with a low speed electric mixer to obtain an homogeneous, self-levelling, lump free mix. After 2-3 minutes of slacking, the mix should be restirred and is then ready for use.

Mix enough **Planolit** that can be used to work within 30 minutes at +23°C.

Spreading the mix

Apply **Planolit** with a large metal trowel or rake, tilting the trowel slightly to obtain the desired thickness: in one single coat from 1 mm to 5 mm thick.

Planolit can also be applied with an automatic pressure pump.

Because of its remarkable self-levelling characteristics, **Planolit** quickly loses small trowelling imperfections. When another coat of **Planolit** is needed, applying it as soon as the preceeding coat is set to light foot traffic is recommended (approx. 3 to 4 hours).

Planolit smoothing compound is ready to receive floor coverings after 24 hours at +23°C (time can vary depending on the thickness of the levelling, the temperature and the humidity). On heating screeds, turn off heating elements during application and setting of **Planolit** to avoid an incorrect hydration.

Cleaning

Fresh **Planolit** can be cleaned from tools with water.

CONSUMPTION

1.6 kg **Planolit** per m² and for each mm of thickness.

PACKAGING

Planolit is available in 25 kg bags.

STORAGE

Under normal conditions and in its original unopened packaging **Planolit** is stable for at least 12 months.

However, with time it could undergo a slower setting time but the final characteristics do not alter.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Contains cement that in contact with sweat or other body fluids produces and irritant alkaline reaction and allergic reactions to those predisposed. Use gloves and protective goggles. For further information refer to the safety data sheet.

WARNING

Although the technical details and recommendations contained in this report 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 applications; 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.

All relevant references of the product are available upon request

TECHNICAL DATA (typical values) in compliance with the French norms:	P₂ according to UPEC
PRODUCT IDENTIFICATION	
Consistency:	fine powder
Colour:	grey
Specific gravity (g/cm³):	1.45
Dry solid content (%):	100
Storage:	12 months in original unopened packaging in a dry place
Hazard classification according to EC 99/45:	irritant. Before use refer to the "Safety instructions" paragraph and the information on the packing and safety data sheet.
Customs class:	3824 50 90
APPLICATION DATA AT +23°C -50% R.H.	
Mixing ratio:	approx. 25 parts water per 100 parts Planolit by weight
Thickness per coat:	max. 5 mm
Self-levelling:	yes
Specific gravity of mix (g/cm³):	2.0
pH of mix:	13
Application temperature range:	from +5°C to +30°C
Open time:	30 minutes
Setting time:	60 minutes
Set to light foot traffic:	3-4 hours
Waiting time before bonding:	24 hours
FINAL PERFORMANCE DATA	
Compressive strength (N/mm²): - after 1 day: - after 3 days: - after 7 days: - after 28 days:	10 12 18 22
Flexural strength (N/mm²): - after 1 day: - after 3 days: - after 7 days: - after 28 days:	2.3 2.8 4.0 4.5
Resistance to abrasion Taber Abrasimeter (H22 disc, 550 g, 200 rpm) expressed in weight loss (g): - after 7 days: - after 28 days:	2.5 2.0
Brinell hardness (N/mm²): - after 1 day: - after 3 days: - after 7 days: - after 28 days:	30 45 65 75





MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)













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