



Plano 3

Fast hardening self-levelling smoothing compound for thicknesses of 3 mm to 10 mm; especially recommended for pumping



WHERE TO USE

Because of its self-levelling properties and easy pumpability, **Plano 3** increases daily productivity and reduces considerably the cost of substrate preparation. **Plano 3** is used for levelling and smoothing of new or existing substrates and readies them for receiving any type of flooring in areas where resistance to heavy loads and traffic is needed along with an especially smooth surface.

Plano 3 can be used in interiors in thicknesses of 3 to 10 mm only.

Some application examples

- Smoothing concrete slabs and cement-based screeds or **Topcem**, **Mapecem** or **Topcem Pronto**-based screeds.
- Smoothing anhydrite screeds.
- Smoothing for under-floor heating installations.
- Smoothing over existing ceramic tile, terrazzo, natural stone and magnesite floors.

TECHNICAL CHARACTERISTICS

Plano 3 is a pinkish grey powder composed of special fast-setting and hydrating cements, specially graded silica sand, resins and special additives prepared according to a formula developed in the MAPEI research laboratories.

When mixed with water **Plano 3** becomes a very fluid, easy to work with mix that has excellent self-levelling properties and cures rapidly.

Plano 3 is easily applied with a pump even at distances

of over 100 m.

Plano 3 is strong enough to withstand wheelchair traffic.

Each coat of **Plano 3** can be applied in thicknesses of up to 10 mm without significant shrinkage that might cause cracks or crazing. For thicknesses of 10 to 15 mm, approx. 30% of 0 to 4 mm graded sand can be added.

Once completely dry **Plano 3** has excellent compressive and flexural strength as well as resistance to impact and abrasion.

Flooring can be installed once **Plano 3** has dried, after 24 to 48 hours, depending on the thickness, temperature and moisture of the environment.

RECOMMENDATIONS

- Do not add more water to the mix once it has begun to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use for smoothing in exteriors or for substrates subject to rising damp.
- Do not apply another coat of **Plano 3** once the previous one has completely dried without first applying a primer of 1 part by weight of **Primer G** diluted with 3 parts water by weight.
- Do not use **Plano 3** at temperatures below +5°C and above +30°C.
- Do not use for levelling over wood substrates. Use **Fiberplan**.

Plano 3

- Do not apply **Plano 3** in thicknesses less than 3 mm.

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be solid and free of dirt, loose materials, paint, wax, oils, rust, traces of gypsum or other materials which may interfere with bonding. Absorbent substrates which are not sufficiently solid must be removed or wherever possible consolidated with **Profas** or **Primer MF**.

Cracks or crazing in cement substrates must be repaired with **Eporip**.

few minutes and then mix again briefly. The mix is now ready to be applied. The mixed batch of **Plano 3** must be used within 20 to 30 minutes (at a temperature of +23°C).

Spreading the mix

Spread **Plano 3** in a single coat 3 to 10 mm thick with a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

Plano 3 can also be applied with a pump. When a second coat is required, it is recommended to apply it as soon as the previous coat can be walked on (approx. 3 hours at +23°C).

Installing the flooring

Once **Plano 3** dries, resilient and textile floor covering, ceramic tiles, and wood flooring can be installed over it.

All of the many MAPEI adhesive products are designed to be applied over **Plano 3**. Waiting time before installation can vary according to the ambient temperature and humidity, and the thickness, and type of flooring to be installed (24 to 48 hours).

Cleaning

While **Plano 3** is still wet, tools and containers can be cleaned with plenty of water.

CONSUMPTION

1.6 kg/m² for each mm of thickness.

PACKAGING

Plano 3 is available in 25 kg bags.

STORAGE

12 months in original sealed packaging. Over longer periods the product may set less rapidly without changing its final performance results.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

The product contains cement that when in contact with sweat or any other body fluids could produce an irritant alkaline reaction. Use protective gloves and goggles. For further information consult the safety data sheet.

FOR PROFESSIONALS.

WARNING

N.B. 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**



Applying Plano 3 with a pump

Concrete substrates must first be treated with **Primer G** (1 part **Primer G** to 3 parts water) to prevent potential debonding and to make the substrate uniformly absorbent.

Anhydrite screeds can be levelled with **Plano 3**, only after first being sanded and then given a coat of **Primer S**, **Mapeprim SP**, **Primer G** or **Primer MF**.

Existing flooring, such as ceramic tile or natural stone, must be carefully cleaned to eliminate all traces of wax and then treated with a coat of **Mapeprim SP**.

Magnesite substrates must be primed with **Mapeprim SP**.

Preparing the mix

Pour a 25 kg bag of **Plano 3** into a receptacle containing approx. 5.5 litres of clean water while mixing continuously at low speed with an electric mixer until a homogeneous lump free mix is obtained. Larger quantities can be mixed in a mortar mixer. Let the mix sit for a

TECHNICAL DATA (typical values)

Complies with:

(P3) Superior quality smoothing compound
(UPEC classif.)

PRODUCT IDENTIFICATION

Consistency:	fine powder
Colour:	pinkish grey
Density:	1.25 g/cm ³
Dry solid content:	100%
Storage:	12 months in a dry place in original sealed packaging
Hazard classification according to EEC 88/379:	none
Customs class:	3824 50 90
Mixing ratio:	20-22 parts water to 100 parts Plano 3 by weight

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

Thickness per coat:	from 3 to 10 mm
Self-levelling:	good
Density of mix with water:	2.0 g/cm ³
pH of mix:	> 12
Application temperature range:	from +5°C to +30°C
Open time:	approx. 20 minutes
Setting time:	approx. 60-100 minutes
Ready to light foot traffic:	4-6 hours
Waiting time before installing flooring:	24-48 hours

FINAL PERFORMANCE DATA:

Compressive strength (EN 196):	
- after 1 day:	10.0 N/mm ²
- after 3 days:	15.0 N/mm ²
- after 7 days:	20.0 N/mm ²
- after 28 days:	28.0 N/mm ²

Flexural strength (EN 196):	
- after 1 day:	3.0 N/mm ²
- after 3 days:	4.5 N/mm ²
- after 7 days:	6.0 N/mm ²
- after 28 days:	8.0 N/mm ²

Resistance to abrasion-weight loss: (with Taber abrasion meter, H22 disk, weight 550 g after 200 rev.)	
after 7 days curing:	3.5 g
after 28 days curing:	2.5 g



Using a roller on freshly applied Plano 3



Plano 3 is self-levelling



BUILDING THE FUTURE

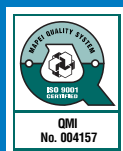
MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)



MAPEI S.p.A. - ITALY



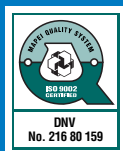
MAPEI FRANCE



MAPEI INC - CANADA



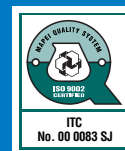
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