

PLANOPUR

Two-component, self-levelling, flexible polyurethane smoothing compound suitable for all types of substrate, especially those subject to deformation



WHERE TO USE

Planopur is used to even out and protect all kinds of substrate before laying internal and external resilient floor coverings.

Some application examples

- Smoothing substrates before laying rubber or PVC floor covering with polyurethane or epoxy-polyurethane adhesives, in residential and industrial environments subject to heavy traffic.
- Smoothing deformable substrates, such as asphalt and bitumen concrete.
- Smoothing and waterproof protection layer of metal and aluminium substrates before laying resilient floor coverings.
- Smoothing and protection layer of substrates for wood, chipboard, marine plywood, etc.
- Smoothing over floor coverings in non-slip rubber, PVC, etc. before laying new floor coverings.
- Smoothing and waterproof protection layer for substrates which are sensitive to humidity, such as those in anhydrite and magnesium.

TECHNICAL CHARACTERISTICS

Planopur is a self-levelling, two-component polyurethane resin-based smoothing and levelling compound.

By carefully mixing the two components, an easy-to-apply, self-levelling paste is obtained, which may be used to form a beige-coloured deformable surface with high mechanical strength, and which is perfectly flat and non-absorbent.

Planopur may be applied at any thickness to even out highly-irregular surfaces on the substrate.

Floor coverings may be laid on **Planopur** approximately 16 hours after applying the product.

RECOMMENDATIONS

Do not use **Planopur**:

- if mixed with water or solvents;
- at temperatures lower than +5°C or higher than +30°C. The ideal temperature for applying **Planopur** is from +15°C to +23°C. Higher application temperatures reduce the workability time and the reticulation of the product, while lower temperatures increase these times;
- on substrates subject to continuous rising damp.

The surface of **Planopur** must always be sanded down before laying the floor covering.

Resilient floor coverings may be laid using water-based adhesives, neoprene-based adhesives or polyurethane or epoxy-polyurethane-based adhesives.

Preparation of the substrate

The substrate must be dry and must not be subject to rising damp. It must also be sound and free of cracks, dust, loose parts, paint, wax, oil, rust, traces of gypsum, etc. The level of residual humidity must be within the limits recommended by the manufacturer of the resilient floor covering to be laid. Any cracks present in the substrate must be repaired using epoxy adhesive or polyester resin-based adhesive from MAPEI range.

Dusty cementitious substrates, or substrates with a loose or crumbly surface, must be consolidated beforehand with a suitable primer from the MAPEI range. Particularly smooth substrates, such as metal sheet, must be sanded down beforehand. Before applying **Planopur**, all substrates must be treated with **Primer SN** or **Eco Prim PU 1K** (refer to the

relevant technical data sheet for each product).
The above primers may be applied with a roller or by brush.

Preparation of the mix

The two components which make up **Planopur** are supplied in pre-dosed quantities in drums:

- component A (6 parts in weight);
- component B (1 part in weight).

Pour the entire contents of component B into the drum of component A and mix with a low-speed mixer (approx. 400 rpm) until a homogenous mix is obtained.

To guarantee that the two components are perfectly blended, the **Planopur** mix must be poured into another clean container and re-mixed briefly.

N.B. the mixing ratio for component A and component B must be strictly adhered to. Any modification to the dosage will interfere with product reticulation.

Application of the mix

Planopur must be applied with a rake or a metallic trowel to the thickness required, as soon as the primer is ready to take light foot traffic (after approximately 12 hours at +23°C), and no more than 24 hours after application. If the foreseen application time is more than 24 hours, cover the surface of the primer while still fresh with **0.25 Quartz**. Any loose quartz must be thoroughly removed before applying the product.

If a further layer of **Planopur** is required, wait at least 6-8 hours after the previous application.

Planopur has excellent self-levelling and hardening properties, and all types of floor coverings may be laid only 8-10 hours after application. Before laying the floor covering, sand the surface of **Planopur** with sandpaper No. 60-80 grain, until a white-coloured surface is obtained.

Cleaning

While still fresh, **Planopur** may be removed with **Cleaner L** or with thinners/alcohol. Once hardened, the product may only be removed mechanically or with **Pulicol 2000**.

CONSUMPTION

Approx. 1.5 kg/m² per mm of thickness.

PACKAGING

Planopur is supplied in 14 kg kits.

STORAGE

12 months in its original packaging. Store the product in a cool place and protect from frost (+5°C).

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.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

COMPONENT A

Consistency of the mix:	liquid
Colour:	beige
Density:	1.7 g/cm ³
Brookfield viscosity:	6,800 mPa·s ± 200
Dry solids content:	100%

COMPONENT B

Consistency:	liquid
Colour:	brown
Density:	1.2 g/cm ³

Brookfield viscosity:	30 mPa·s ± 5
Dry solids content:	100%

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

Mixing ratio (A+B):	6 : 1
Consistency of the mix:	liquid
Colour:	beige
Density of mix:	1,600 kg/m ³
Brookfield viscosity:	2,100 mPa·s ± 50
Application temperature range:	from +5°C to +30°C
Pot life:	approx. 30-35 minutes
Set to light foot traffic:	approx. 12 hours
Waiting time before bonding:	after approx. 16 hours
Final hardening time:	after 7 days

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

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The most up-to-date TDS can be downloaded from our website www.mapei.com.

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