



Conplan Eco F



Self-levelling smoothing compound for floors



PRODUCT DESCRIPTION

Conplan Eco F is a cement-based pumpable, smoothing compound for fine levelling of substrates consisting of concrete.

Conplan Eco F is supplied as dry mortar and is composed of cement, sand up to 0.4 mm, plasticising and adhesion-improving substances.

Conplan Eco F only needs the addition of water and can be laid in thicknesses of from 0 - 10 mm in a single operation. Temperature should be minimum +10°C in floor and room.

Conplan Eco F is CE approved and classified as CT-C25-F7 in accordance with EN 13813.

AREA OF USE

Suitable for levelling in thin layers from 0 to 10 mm where covering is required early. The compound is suitable as a substrate for most floor covering types in homes, offices, institutions and commercial premises.

INSTRUCTIONS FOR USE

Substrate

Conplan Eco F can be used on substrates of concrete, lightweight concrete, cavity decking, tiled surfaces and others with a surface density of > 0.5 N/mm². Concrete surfaces must be free of cement slurry and other loose particles, and free of dust. Other substrates must be cleaned of all materials which can reduce adhesion.

Preparation

The surface must be clean, with loose, porous concrete removed, and thoroughly vacuumed.

Prime concrete floors with 1 part **Primer Eco** diluted with 3 parts water. Follow our recommendations for other surfaces.

Use a brush or spray to apply primer. Use a brush to spread the primer evenly if spraying. Prime one day in advance or as early as possible to ensure it is dry before smoothing.

Conplan Eco F should not be laid on concrete floors with relative humidity higher than 90% RH.

Priming

Primer Eco before laying the smoothing compound.

Good priming is a necessity for a pore-free and level floor, with good adhesion to the substrate.

Priming can be applied with a brush or spray. When spraying, smooth out the primer using a brush.

Primer should ideally be applied a day in advance or as early as possible, to ensure it is dry before smoothing starts.

Pores are usually the result of insufficient, thin or over-diluted priming, low substrate temperature or a combination of these.

A concrete floor will usually be completely dried out after years of use, and have achieved a relative humidity close to that of the building/room. When

PRIMER GUIDE - Primer Eco

Substrate	Mixing ratio:		Comments
	Primer	Water	
Concrete floors	1	3	
Highly absorbent substrates	1	2	consider priming twice
Lightweight concrete	1	3	
Wood/linoleum	concentrated		

an old covering material is removed from a concrete surface, the surface will be highly absorbent. Primer must always be dry before applying smoother. This is to give the primer chance to form a complete film. The time it takes before the primer is dry (transparent) varies according to temperature and humidity, and can be from 2 hours and up.

Please note that if it takes more than 4 hours for the primer to dry, it is an indication that humidity in the floor or room is too high. This can give undesired quality of the finished floor. Always ensure good ventilation in the room and that the substrate is dry. When laying smoothing compound, the substrate will absorb humidity which causes the air from the concrete's pore system to be released and rise to the surface through the compound.

If the substrate is highly absorbent, air channels can form in the smoothing compound late in the setting process, which will not seal up. The result can be formation of craters.

Similarly, a highly absorbent substrate can cause rapid drying of the smoothing compound, which can result in plastic cracking. It is important to consider priming twice.

An alternative to **Primer Eco** is **Primer E-10**, mixed with water in a ratio of 1:1 when laying on a concrete substrate. **Primer E-10** is also used concentrated on other surfaces.

Mixing

Mix with drill and whisk. Mix to a smooth consistency. Normal mixing time 2 - 3 minutes.

Conplan Eco F can also be mixed and pumped using an automatic mixing machine. Too much water will reduce the density of the mix, cause separation and an uneven, unattractive surface.

Laying

Lay the compound using a tub for small areas, use an automatic mixer pump for larger areas. A broad spatula can be used to spread the compound in a thin layer.

STORAGE

In 6 month stored in a dry place in unopened original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

For further information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet, to be found on our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

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.no

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.

TECHNICAL DATA (typical values)	
In accordance with:	
– European EN 13888 CT-C30-F7-F – ISO 13007-3 som CG2WA	
PRODUCT IDENTITY	
Colour:	grey
Type:	powder
Bulk density (kg/m ³):	1600
Dry solid content (%):	100
EMICODE:	EC1 – very low emission
Grain size (D _{max}) (mm):	0.4
APPLICATION DATA (at +20° C and 50% R.H)	
Layer thickness per layer (mm):	from 0-10
Mix ratio:	5.3-5.6 litres/sack (26-28%)
Flow for 5.6 L water (SS 923519):	160 mm
Flow for 5.6 L water (EN 12706):	135 -145 mm
Density of mix (kg/m ³):	2050
pH:	approx. 12
Application temperature:	from +10 °C to +25 °C
Application time:	15-25 minutes
Binding time (EN 13454-2):	NPD
Set to light foot traffic :	2-3 hours
Ready for use:	24-48 hours
FINAL PERFORMANCE	
Reaction to fire (EN 13501-1):	F
Compressive strength after 1 day (N/mm ²) (EN 13892-2):	10,0
Compressive strength after 28 days (N/mm ²) (EN 13892-2):	26.0 (C25)
Tensile strength after 28 days (N/mm ²) (EN 13892-2):	7,0 (F7)
Shrinkage (EN 13454-2/EN 13872) (< 10 mm) (mm/m):	< 0.8
Cohesive strenght:	> 2.0
Consistency (EN 12706):	NPD
Adhesion (EN 13892-8:2004):	>1.0

All production is controlled according to our EN ISO 9001 and EN ISO 14000.



**Conplan
Eco F**

*The most up-to-date TDS can
be downloaded from our website
www.mapei.no*

**ANY ALTERATION TO THE WORDING
OR REQUIREMENTS CONTAINED OR
DERIVED FROM THIS TDS EXCLUDES
THE RESPONSIBILITY OF MAPEI.**



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

**All references for the product
are available upon request
and on our websites at
www.mapei.no**

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