



# 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-F6 in accordance with EN13813.

### 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/mm<sup>2</sup>. 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 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

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		

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 9 month stored in a dry place in unopened original packaging.

### SIKKERHETSINSTRUKSJONER FOR AFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Conplan Eco F** contains cement, which in contact with sweat or other body fluids can cause an irritating alkaline reaction. Wear gloves and safety glasses. For further information concerning safe use of the products, please see the latest edition of the safety data sheets.

PRODUCT FOR PROFESSIONAL USE

### WARNING

*The technical recommendations and details in this product description represent our current knowledge and experience of the products. All the above information should be treated as a guide and full consideration should be given. Anyone using the product must ensure that it is suitable for the intended purpose before use. The manufacturer cannot be held liable for use of the product for purposes for which it is not recommended or in the event of accidental use.*

**Please refer to the most recent version of the technical data sheet on our website at [www.mapei.com](http://www.mapei.com)**



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



**Our Commitment To The Environment**  
MAPEI products assist Project Designers and contractors create innovative LEED (The Leadership in Energy and Environment Design) certified projects in compliance with the U.S Green Building Council.

**All references for the product are available upon request and on our websites at [www.mapei.no](http://www.mapei.no) and [www.mapei.com](http://www.mapei.com)**

TECHNICAL DATA (typical values)		
<b>PRODUCT IDENTITY</b>		EN 13813 CT-C30-F7-F
Colour:		grey
Type:		powder
Bulk density (kg/m <sup>3</sup> ):		1600
Dry solid content %:		100
Storage:		9 month in a dry place in original packaging
Classification:	EC 1999/45	None. For further information see our safety data sheet
EMICODE:		EC1 Plus – very low emission
Grain size (Dmax):		0.4 mm
Packaging:		20 kg sack and bag
APPLICATION DATA (at +20°C and 50% R.H)		
Layer thickness per layer:		from 0-10 mm
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 -145mm
Density of mix (kg/m <sup>3</sup> ):		2050
pH:		Approx. 12
Application temperature:		From +10° 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 <sup>2</sup> ):	EN 13892-2	10,0
Compressive strength after 28 days (N/mm <sup>2</sup> ):	EN 13892-2	26.0 (C30)
Tensile strength after 28 days (N/mm <sup>2</sup> ):	EN 13892-2	7,0 (F7)
Shrinkage:	EN 13454-2/ EN 13872 (< 10 mm)	< 0.8mm/m
Consistency:	EN 12706	NPD
Adhesion:	UNI EN 13892-8:2004	>1.0

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

**Conplan  
Eco F**



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CPR-NO1/0106

EN 13813:2002 CT-C25-F7

**CONPLAN ECO F**

Cementitious screed material for internal use in floor construction

Reaction to fire:	F
Release of corrosive substances:	CT
Water permeability:	NPD
Water vapour permeability:	NPD
Compressive strength:	C25
Flexural strength:	F7
Wear resistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

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