MAPEI

GEV-EMICODE EC 1 PLUS very low emission

Conplan Eco R

CT LEVELLING COMPOUNDS C30-F7 MAPEI IN COMPLIANCE WITH EUROPEAN STANDARDS EN 13813

CE EN 13813

Fast curing, self-levelling, cement-based mortar for floors

PRODUCT DESCRIPTION

Conplan ECO R is a cementitious selflevelling floor screed for use on concrete substrates.
Conplan ECO R is supplied as a dry mortar consisting of cement, sand up to 0.5 mm, plasticizing and bond enhancing admixtures.
Conplan ECO R requires only the addition of water and can be applied in thicknesses from 3 - 20 mm in a single operation. The minimum floor and ambient temperature during application is +10°C.

WHERE TO USE

Particularly suitable for areas requiring rapid installation of overlayment. Suitable as an underlayment for most types of flooring.

APPLICATION PROCEDURES

Preparation

Existing surfaces must be cleaned. Weak and porous concrete must be removed, and finally the floor should be vacuum cleaned thoroughly. Treat concrete floors with **Primer ECO** diluted with water (1 : 3 primer to water ratio), or according to the supplier's instructions for other substrates.

Apply the primer with a brush or spray gun. When spraying even the primer out with a brush. Surfaces should be primed the previous day, or well enough in advance for the primer to be dry before installing **Conplan ECO R**.

Mixing

Mix to a smooth, lump free mixture, usually 2 - 3 minutes, using an automatic mixing pump, special pump with mixing unit or drill with whisk attachment. The mixture must be used within 30 minutes of mixing.

Application

The mixture is applied by pump, which is adjusted according to the amount of water used before pumping begins. Regular flow checks must be made throughout the installation procedure. The flow at +20°C is usually 155 - 165 mm.
The mixture is pumped through out a hose onto the floor where it is distributed in lengths of 6 - 12 meters, depending on the type of pump used. Each new length is placed against the previous one to give a unidirectional flow. The mixture can also be poured out from a bucket when installing over smaller areas.

FACTORS AFFECTING PROPERTIES

Over-watering leads to reduced strength and increased risk of segregation and void formation. Exposure to draughts immediately after installation may cause drying cracking. Use of propane heaters in the same room while the mixture is fresh may result in a white surface deposit (lime compounds). Low temperatures have a great influence on the development of strength.

CONSUMPTION

Approx. 1.7 kg/m^2 per mm of thickness.

Conplan Eco R

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	EN 13813 CT-C30-F7-A2$_{FL}$-s1
Colour:	grey
Type:	powder
Bulk density (kg/m³):	1700
Dry solid content %:	100
EMICODE:	EC1 Plus – very low emission
Grain size (Dmax):	0,4 mm
APPLICATION DATA (at +20 °C and 50% R.H)	
Layer thickness per layer:	up to 20 mm per layer
Mixing ratio:	3.8 - 4.0 l per 20 kg sack
Flow for 4.1 L water (SS 923519):	155-165 mm
Flow for 4.1 L water (EN 12706):	135-145 mm
Density of mixture (kg/m³):	2.100
pH:	approx. 12
Application temperature:	min. +10 °C, surface and ambient temperature
Application time:	approx. 30 minutes
Binding time (EN 13454-2):	NPD
Set to light foot traffic:	after 5 hours
Ready for use:	for dry substrate, after 12 - 18 hours at +20 °C
FINAL PERFORMANCE	
Reaction to fire (EN 13501-1):	A1$_{FL}$
Compressive strength after 1 day (N/mm²) (EN 13892-2):	16-18
Compressive strength after 28 days (N/mm²) (EN 13892-2):	34-38
Characteristic compressive strength after 28 days (N/mm²) (EN 13892-2):	34
Tensile strength after 28 days (N/mm²) (EN 13892-2):	> 8.0
Cohesive strenght:	> 2.0
Shrinkage (EN 13454-2/EN 13872 (<10 mm)):	0.05 - 0.07
Consistency (EN 12706):	NPD
Adhesion (UNI EN 13892-8:2004):	> 1.5

Production is controlled according to our EN ISO 9001 and EN ISO 14001.

PACKAGING

Conplan ECO R is supplied in 20 kg sacks, 1200 kg big-bag and bulk.

STORAGE

Conplan ECO R can be stored for 6 months in its original unopened packaging in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

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.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.
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.

GEV-EMICODE EC 1 PLUS very low emission

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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