

PLAN R35 PLUS

Fine thixotropic levelling mortar



PRODUCT DESCRIPTION

Plan R35 Plus is a fast setting, cement based fine levelling mortar for indoor floors and walls, in thicknesses from 0 - 50 mm.

Plan R35 Plus consists of cement, well graded, fine aggregates and synthetic additives.

Plan R35 Plus is a thixotropic paste, which can be easily applied, has good bonding characteristics and dries so quickly that subsequent painting, laying of flooring or ceramic coverage can be carried out after 3 to 4 hours.

Plan R35 Plus cures without shrinkage and cracking and achieves a high degree of flexural- and compressive strength after a very short time. The surface has in addition a high abrasion resistance. The finished surface, where **Plan R35 Plus** has been applied, is very smooth, which makes it particularly suitable for laying of all types of soft flooring, surfaces and coverings.

Adding a polymer additive, **Latex Plus** to **Plan R35 Plus**, will improve adhesion to metal surfaces, old rubber flooring, PVC, particle board, parquet, wood, linoleum and similar surfaces.

NOTE! MAPEI does not guarantee EC1 certification on the product when adding **Latex Plus**.

WHERE TO USE

For repairs and levelling of floors, walls, stairs and corners, where there is a need for quick bonding and curing, as well as to obtain a smooth surface.

Examples of use

- Smoothing of concrete, **Finbetong B20/B30**, **Confix** and smoothing on **VR Støp**, **Conplan ECO** and **Uniplan ECO**.
- Smoothing of concrete, ceramic tiles and natural stone.
- Smoothing of concrete walls and cement plaster.
- Repair and levelling of stairs, landings and column edges.

TECHNICAL CHARACTERISTICS

Pre-treatment

The substrate must be clean, firm, dry and free of dust and loose material, paint, wax, oil, rust, mortar residues and other contaminants. Absorbing or very porous concrete surfaces may be primed with **Primer ECO**, diluted with water 1:3 to ensure that the substrate is uniformly absorbent.

On dense, smooth substrates, such as ceramic tiles or natural stone, apply a coat **Eco Prim Grip** after having washed the substrate with a suitable detergent. This ensures good adhesion to the substrate. Apply **Plan R35 Plus** within 24 hours of priming.

Mixing

Pour the contents of a sack/bag with **Plan R35 Plus** into clean water while stirring, and continue stirring with a slow speed drill with a whisk until you achieve a smooth, homogeneous, lump-free paste. Pot life is approx. 15 minutes (at +20°C).

Water additive is 5.2 litres per 20 kg sack and 1.3 litres per 5 kg bag. Do not use more water during mixing than what is recommended and do not add water after the mixture has begun to solidify.

Casting

The mixture may be applied with a suitable masonry tool, e.g. with a long smooth trowel. If necessary, several layers may be applied after each other (wait approx. 40 to 50 minutes between each layer application, depending on the temperature). Substrates that have been smoothed with **Plan Plus R35 Plus** are ready for subsequent treatment 3 to 4 hours after **Plan R35 Plus** has been applied. Do not use at temperatures lower than +5°C and protect the surface from rapidly drying out.

Cleaning

Plan R35 Plus can be washed off hands and tools with water before it has solidified.

CONSUMPTION

Approx. 1.5 kg/m² per mm thickness.

PACKAGING

Plan R35 Plus is delivered in 20 kg sacks and 5 kg bags (Alu-pack).

STORAGE

Plan R35 Plus may be stored for 6 months for 20 kg bags and 24 months for 5 kg bags in its original packaging in a dry place. Storage of **Plan R35 Plus** overtime may increase solidification time, but has no impact on the final properties.

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.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	EN 13813 CT-C35-F7-NPD
Colour:	grey
Consistency:	powder
Specific weight of powder (kg/m ³):	1500
Solid content %:	100
EMICODE:	EC1 – very low emission
Grain size (D _{max}):	0.2 mm

APPLICATION PROPERTIES (at +20°C and 50 % R.H)		
Thickness per layer:		from 0 to 50 mm
Recommended water addition:		5.2 litres / 20 kg sack 1.3 litres / 5 kg alu-pack
Specific gravity (g/cm ³) pre-mixed:		1.5
pH:		approx. 12
Application temperature range:		from +10°C to +25°C
Pot life:		approx. 15 min.
Bonding time:	EN 13454-2	NPD
Walkable after:		approx. 1 hour
Ready for coverage after (approx.):		3 - 4 hours

FINAL PROPERTIES

Reaction to fire:	EN 13501-1	NPD
pH after 24 hours:		≤ 10
pH after 3 days:		≤ 9
Compressive strength w/26 % of water after one day (N/mm ²):	EN 13892-2	> 25
Compressive strength w/26 % of water after 28 days (N/mm ²):	EN 13892-2	> 35
Flexural strength w/26 % water after 28 days (N/mm ²):	EN 13892-2	> 7.0
Shrinkage:	EN 13454-2/ EN 13872 (< 10 mm)	NPD
Consistency:	EN 12706	NPD
Adhesion:	EN 13892-8:2004	NPD

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

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 web site 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 effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.no

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