

MonniLevel C30

Self-Levelling Cementitious Mortar

Product Description

MonniLevel C30 is a fine powder composed of cement, selected aggregates, additives and special synthetic resins. When mixed with water it forms a very fluid and flowing mixture, perfectly leveling, with easy application, and good adhesion to the support.

Uses

MonniLevel C30 is used for horizontal surface leveling with thickness from 5 to 30 mm. It can be applied internally as screed on concrete for existing floors of ceramics, marble, etc. before the ceramic tiles or other types of floors laying.

Advantages

- ▶ Can be used internally
- ▶ Flowable consistency for self-leveling application
- ▶ Minimal shrinkage with outstanding resistance to cracking
- ▶ Excellent bonding strength
- ▶ Economical and easy to use

Usage Instructions

Surface Preparation

The surface of the concrete to be prepared shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

All cracks and imperfections shall be repaired using MonniRep F6, a cementitious fairing coat.

New concrete floors should be allowed to cure for at least 28 days before applying the primer.

Priming

The substrate must be treated with Monneli Bond, a synthetic resin, high penetrating primer.

Monneli Bond should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 m²/Liter.

The primer should be left to achieve a tack-free condition before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

Pour into a container with 5.0 Liters of water for 25 Kg bag of MonniLevel C30. Add the product to the water and mix with a low speed electric drill fitted with a suitable paddle for 2 minutes scraping sides and bottom of the can, until a uniform, lump free consistency mix is achieved. Allow the mix to stand for 3 minutes and then remix again for 30 seconds.

Mix a quantity of product that can be applied within 30 minutes only. Do not remix with water if the mixture had already begun to set.

Application

Pour the mixed product into the surface and spread to the desired thickness using flooring rake and a spike roller.

Protect the floor after leveling the mix from direct sunlight, high winds or rain.

MonniLevel C30 can be applied for thickness from 5 up to 30 mm per coat.

It is possible to apply flooring material on top of MonniLevel C30 screed (such as ceramic, carpet, etc.) after nearly 48 hours from curing the product (depending on the thickness, the supports humidity and weather conditions)

Curing

Curing of the completed floor shall be carried out using a combination of damp hessian and polythene sheeting for a period of no less than 2 days.

Cleaning

The product is self-leveling and requires minimal finishing or troweling operation.

Clean tools and equipment with water before the material hardens.

Recommendations

- ▶ Do not apply if the temperature is below +5°C
- ▶ During summer season or temperature higher than +35°C, working area should be covered to prevent the direct sun effects. Keep equipment cool and use cool water

- ▶ Ground floor slabs on sloping gradient must incorporate a damp-proof membrane in the sub-floor
- ▶ It is advisable to mix with cool water (temperature around +20°C)
- ▶ Protect the freshly applied MonniLevel C30 from direct sunlight and/or strong drying wind
- ▶ MonniLevel C30 should not be applied over asphalt, weaker friable concrete, PVC tiles, or sheet substrates
- ▶ MonniLevel C30 should be cured for two days by covering with wet Hessian cloth and polythene sheet

Technical Data

Category	Typical Values
Appearance	Grey Powder
Density at 25°C	2.0 kg/L
VOC	2.0 g/L
Pull off bond strength	1.0 N / mm ²
Working time of mixture at 25°C	30 minutes
BRE Screed test (BS 8204 Pt.1)	0.8mm
Compressive Strength at 28 days (BS EN 13892)	> 30 N/mm ²
Flexural Strength at 28 days (BS EN 13892)	> 8 N/mm ²
Tensile Strength (BS EN 13892)	1 N/mm ²
Shrinkage Test (BS EN 13872)	1 mm/m
Initial setting time at 25°C	3 ½ hours
Final setting time at 25°C	5 hours
Time to wait before tiles Laying	48 hours
Service Temperature	+5°C - +80°C

All values are subject to 5-10% tolerance

Consumption

2.0 kg/m² per millimeter of thickness

Packaging &

MonniLevel C30 is packed in 25 kg of bags

Life & Storage

Keep the product in a dry covered place into original well closed packaging. Shelf life is 6 months from date of production if stored properly.

Health & Safety

MonniLevel C30 can be harmful to skin as it contains cement powders which may releases alkalis when mixed with water.

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately.

Do not induce vomiting.

Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

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