

MONNELI ULTRALIVEL

Self Leveling Rapidly Setting Mortar

Product Description

A rapidly setting self-leveling floor underlayment. It is a fine powder composed of special cement, selected aggregates, organic resins and other additives, requiring only the addition of water to form a very flowable mixture, perfectly leveling, with easy application, good adhesion to the support and rapidly setting.

Uses

ULTRALIVEL is used for horizontal surfaces leveling with thickness up to 10 mm. It can be applied as screed on concrete for existing floors of ceramics, marble, etc. before ceramic tiles or other types of floors laying. ULTRALIVEL can be applied internally only.

Advantages

- Fast hardening
- Single component – simply mixed with water on site
- Self smoothing
- Flowable consistency for self leveling application
- Minimal shrinkage with outstanding resistance for cracking
- Excellent bonding strength to the substrate

Instructions for Use

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 scabbling, grinding or grit/captive blasting

followed by vacuum cleaning to remove dust debris. All cracks and imperfections shall be repaired using BETOFINISH, 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 primed with PRIMER A18, a synthetic resin high penetrating primer.

PRIMER A18 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 ULTRALIVEL.

Add the product to the water and mix with a low speed electric drill fitted with a suitable paddle for 2 mins scraping sides and bottom of the can, until a uniform, lump free consistency mix is achieved. Allow the mix to stand for 3 mins and then remix again for 30 secs.

Mix a quantity of product that can be applied within 30 minutes only. Do not add water to the mixture after it had began 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. ULTRALIVEL can be applied for thickness from 3 up to 10 mm per coat. For more thickness add around 30% of sand (Quartzo no.1)

It is possible to apply flooring material on top of ULTRALIVEL 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.

Protect all treated surfaces from wind and frost, by covering with plastic sheeting, damp hessian or equivalent.

Finishing & Clean-up

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

Clean tools and equipment with water before the material hardens.

Recommendations

- ULTRALIVEL should not be used on floors known to suffer from rising damp, unless treated with a suitable damp proof membrane
- ULTRALIVEL should not be applied at temperatures below +10°C and above +35°C
- ULTRALIVEL should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates

Consumption

2.1 kg/m² per millimeter of thickness

Technical Data

Properties	Results
Appearance	Grey powder
Density at 25°C	2.1 kg /L
Pull off bond strength	1.0 N/mm ²
Compressive strength at 28 days (BS EN 13892)	≥32 N/mm ²
Initial setting time at 25°C	50 minutes
Time to wait before tiles laying	12 hours
Possible thickness per coat	from 3 to 10 mm
Temperature of application	+5°C to +35°C
Service temperature	+5°C to +80°C

All values are subject to 5-10 % tolerance

Packaging

ULTRALIVEL is pack in 25 kg bags

Storage

Keep the product in covered and dry place. Shelf life is 6 months from date of production if stored properly.

Health & Safety

ULTRALIVEL 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.

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