

# MonniLevel C20

Premixed 8 to 20mm Thick Polymer Modified Cementitious Self Leveling Underlayment

## Product Description

MonniLevel C20 is a single component polymer modified cementitious floor self-leveling underlayment composed of hydraulic binders, selected aggregates and special additives. It is supplied as a dry powder in pre-weighed bags ready to use on site, once mixed it will form a cohesive self-smoothing honey-like flowing mortar that is applied in thicknesses between 8 and 20mm giving a super flat finish ready to receive final floor coverings including tiles, carpets, resinous flooring systems, parquet, etc.

## Uses

- ▶ Leveling of concrete slabs prior to application of final floor coverings such as tiles and resinous systems.
- ▶ As a substrate for vinyl tiles, parquet, carpet and floor coverings that require super-flat substrates.

## Advantages

- ▶ Factory controlled pre-blend ensures consistent high quality.
- ▶ Suitable for Middle East harsh weather conditions.
- ▶ Easy application enabling high productivity & superior finishing.
- ▶ Rapid commissioning and serviceability.
- ▶ High bond to substrate.
- ▶ Excellent physical and mechanical properties.
- ▶ Shrinkage compensated.
- ▶ Excellent workability.
- ▶ Fiber reinforced resisting crack formation.

## Usage Instructions

### Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.

Larger areas can be divided with wooden battens to control the pumping volume and determine the layer thickness to be applied.

Priming the substrate is vital, use MonniBond without dilution. Mix thoroughly and spray or brush onto the floor without pooling.

Before applying MonniLevel C20, it's important to leave the primer between 30-60 minutes to fully dry. In case of doubt, check the primer dryness by adding drops of water on top of the primer substrate, it should not absorb the water drops.

### Mixing

For single bag mixing add to the mixing container 4.25-5.00 liters of water for each 25 Kg bag of MonniLevel C20. Add the powder to the water and mix with a mechanical plaster mixer on low speed electric drill fitted with a suitable paddle for 3 - 4 minutes, until a uniform, lump-free consistency is achieved.

Try to minimize the water addition to get higher strength. Manual mixing is allowed for small batch quantities and mix for approx. 1-2 min or when homogeneous mix is achieved.

MonniLevel C20 can be applied using screw type pump with pumping rate of 25-50 liters/min and length of hose 40-50 LM. and control the water dosage to achieve the required flow.

After placing onto the primed surface, apply by trowel or pin screed. Rake to the MonniLevel C20 spreads and adjust itself to a level floor. For small areas MonniLevel C20 can be applied manually.

Use suitable spike roll to remove entrapped air if there is any.

### Curing

Self-curing, 1 - 3 days by sealing off the area.  
Floor becomes ready for commissioning or topping after 3-5 days.

### Packaging

MonniLevel C20 is supplied in 25kg bags

### Consumption

1.5 – 1.8 Kg/m<sup>2</sup>/mm per 25 Kg bag

### Technical Data

Category	Typical Values
Appearance	Grey Color Powder
Aggregate Size	1.4 mm (max)
Application Thickness	8-20 mm
Dry Density (Kg/L)	1.80 approx.
Wet Density (Kg/L)	2.10 approx.
Open Time@ 25°C	20 min 2pprox..
Compressive Strength (ASTM C109)	@ 1 day > 5.5 Mpa @ 3 days > 16 Mpa @ 28 days > 30 MPa
Flexural Strength @ 28 days (ASTM C348)	4.5 MPa
VOC	<50 gm/Liter

All values are subject to 5-10 % tolerance

### Standards Compliance

- ▶ EN197: 2011
- ▶ EN13813: 2002
- ▶ BS8204:2010
- ▶ ASTM C109
- ▶ ASTM C348

### 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.

### Shelf Life & Storage

Original sealed bag of MonniLevel C20 has a shelf life of 6 months, provided it is stored clear of ground in a dry and shaded place below 35°C.

### Recommendations

- ▶ Do not mix with any additives or products, unless recommended by Monneli.
- ▶ Make sure the substrate is suitable for underlayment application. In case of doubt, try on sample area to assess its suitability.
- ▶ Do not apply the product at temperature less than +5°C. During summer season the working area must be covered to prevent ill-effects from direct sun and also air-draft during initial curing stage.
- ▶ Tools should be cleaned with water before the mortar hardens. After the hardening its residuals can be removed mechanically only.
- ▶ For further information contact our technical department.

### Health & Safety

MonniLevel C20 is highly alkaline therefore avoid direct contact with eyes or skin. It is recommended to use protective gloves and goggles during application. Any skin contact should be wash with soap & water. In case of eyes irritation, immediately wash with copious amount of clean cold water. Seek medical advice.