

ARMOLEVEL

Cement Based, Self levelling, Thin layer, Underlayment

Description:

ARMOLEVEL is a blend of selected cements based, single component, free flowing, self-leveling product specially designed for application over concrete floor as an underlayment for subsequent layer of floor coverings subject to pedestrian traffic such as PVC flooring, parquet flooring, linoleum and carpets. It is composed of selected cements, graded aggregates, modified with additives and flow agent. It is supplied as a dry powder which requires only the addition of water. When mixed with water it forms a free flowing mixture, self levelling, with easy application, and good adhesion to the support. ARMOLEVEL may be applied manually or by using a mixing pump.

Applications:

ARMOLEVEL is used internally to cast a thin smooth underlayment for a wide range of floor finishes including, tiles, parquet flooring carpets, vinyl sheeting, rubber flooring, in schools, hotel lobbies, theatres, hospitals, etc. It is produced in two different grades, ARMOLEVEL 10 is for the thickness 3 to 10 mm application and ARMOLEVEL 25 for the thickness 10 to 25 mm applications.

Advantages:

- Self-levelling, minimal finishing required.
- Applicable in thicknesses from 3 mm to 25 mm.
- High bonding to substrate.
- Single component, ease of application.
- Minimal shrinkage with outstanding resistance to cracking.
- Stable - can be installed in large jointless areas.

Instructions for Use:

Surface Preparation:

Concrete substrate should have been placed for at least 28 days. All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease.

Contamination or excessive concrete laitance can be removed by utilizing grinding, captive blasting, sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools. Any necessary repairs should be carried out using one of MATEX range of concrete repair products. Consult with Technical Department for recommendation.

Apply a coat of ARMOPRIME AC to the substrate prior to application of the topping. The function of the primer is to seal the substrate to prevent air release from the substrate which will create air bubbles and pinhole to the top surface of ARMOLEVEL. The primer will also act as a bonding agent between the substrate and the screed.

Pour the mixed product into the surface and spread to the desired thickness using flooring rake or a smoothing trowel. Protect the floor after levelling the mix from direct sunlight, high winds or rain.

ARMOLEVEL can be applied for thickness from 3 up to 25 mm per coat, using the right grade. It is possible to apply flooring material on top of ARMOLEVEL (such as ceramic, carpet, etc.) after nearly 48 hours from curing the product (depending on the thickness, the supports humidity and weather conditions).

Mixing:

ARMOLEVEL must be mixed mechanically with low speed drill mixer (200-300 rpm) fitted with a suitable paddle. Mix the gauge water around 5-5.25 liter to the 25 kg content of ARMOLEVEL bag adding powder to water. Mix for minimum of 3 minutes. If bucket mixed, the product should be quickly transported to the work area and placed immediately. Always add the powder to the water the temperature of the water should not exceed 25°C.

Do not mix partially, use full bag contents. After mixing, do not add more water to the mixed material to increase workability. This will increase the water:

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powder ratio, and will eventually reduce the final material performance. If the mix stiffens, it should be discarded. Do not attempt to re-mix with water.

Application:

While ARMOPRIME AC is wet (tacky) apply the mixture of ARMOLEVEL to the dry primed floor directly. Spread the material with a trowel and allow it to self-level. It is recommended to start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers should be used to assist placement. Immediately after placing the material, roll the surface with a spiked roller to help the release of any trapped air.

In normal conditions ARMOLEVEL does not require curing. In case of high temperature, direct sunlight or windy weather, it is recommended to cover the casted product with polythene sheet for 48 hours.

Standards:

ARMOLEVEL conforms to:

- ASTM C 109, ASTM C 1042, ASTM C 191

Storage:

Store in original packing in dry conditions away from direct sunlight in temperature control warehouse.

TECHNICAL PROPERTIES	
Color	: Cement Grey
Bonding Strength	: 3.0 N / mm ²
Compressive Strength	: 30 N / mm ²
Density	: 2.0 Kg. / Lt. at 20°C
Pull off bond strength	: 1.0 N / mm ²
Final setting time	: 4 hours @ +25°C
Time for tiles laying	: 48 hours
Drying Shrinkage @ 28 days	: < 1.1 mm/m
Flexural Strength @ 28 days	: 7 N / mm ²

Packaging:

ARMOLEVEL is available in 25 Kg bags.

Coverage:

ARMOLEVEL achieves coverage of 4.0 - 6.5 square meters @ 3 mm thickness

Shelf Life:

ARMOLEVEL can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools and equipment with water before material harden.

Remarks:

- Designed for interior application use only. ARMOLEVEL is used for foot and light traffics areas. Do not use for exterior application or in areas with heavy traffic.
- Do not expose the product during application and before sitting to air currents. The product will lose self-leveling features and form a crust resulting in wrong application.
- 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 cold water for mixing.
- Make sufficient material, plant and labor available to ensure that application is a continuous process.
- Protect the freshly applied ARMOLEVEL from direct sunlight and/or strong drying wind, and cure for two days by covering with polythene sheet.

Health and Safety:

- Use goggles and gloves during application. Do not breathe dust of product.
- Avoid contact with eyes or skin.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

