

# M610 SELF-LEVELING



## Technical Data Sheet

### PRODUCT DESCRIPTION

M610 Cement-Based Self-Leveling is a high-performance, cement-based self-leveling mortar formulated with specialized fine aggregates and additives. It offers excellent flowability for rapid surface leveling and is suitable for residential, commercial, and light industrial applications. M610 can be applied in a single layer from 2 mm to 20 mm thickness. It is particularly well-suited for use beneath click-lock floor coverings such as SPC, WPC, and laminate flooring. The product is non-toxic, environmentally friendly, and cost-effective.



### FEATURE

- Excellent choice for click-lock or non-glued floorings
- High flow for quick leveling
- Low shrinkage, resistant to cracking
- Easy to apply, practical, and cost-effective
- Single-layer application thickness from 2 mm to 20 mm
- Pumpable for large-area placement

### SUITABLE SUBSTRATE

- Absorbent concrete
- Cementitious mortar screeds
- Well-bonded ceramic tiles
- Exterior grade plywood (when properly sealed)
- Non-absorbent substrates (with non-absorbent primer)

### SUBSTRATE PREPARATION

1. The substrate must be structurally sound, clean, dry, and free from grease, oil, dirt, dust, curing compounds, waxes, sealers, or any bond-breaking contaminants.
2. Mechanical methods such as grinding or sanding shall be used to remove loose dust and contaminants to achieve the required surface profile.
3. Substrate cracks MUST be identified by type and appropriately remediated prior to installation.
4. Concrete must be fully cured (28 days) and treated for any hydrostatic moisture, rising damp, or construction moisture as required.
5. Smooth or non-absorbent surfaces (e.g., glazed tile, polished stone) must be roughened or scarified to promote adhesion.
6. To ensure proper adhesion, the substrate should be sealed with a primer.
7. For absorbent surfaces, a water-based primer is recommended, while a non-absorbent primer is ideal for non-absorbent substrates.

## PRODUCT APPLICATION

1. Pour 6.0–6.5 liters of clean water into a clean mixing container.
2. Slowly add one 25 kg bag of M610 powder while mixing mechanically with a suitable drill and paddle.
3. Continue mixing for 3–5 minutes until the mixture is homogeneous and lump-free. Avoid overmixing.
4. Immediately after mixing, pour the slurry onto the primed substrate and spread to the desired thickness using a gauge rake or spreader.
5. Before initial setting, use a spiked defoaming roller to remove entrapped air and ensure uniform thickness.
6. Protect the fresh application from direct sunlight, strong drafts, and rain. All operations must be completed within 20 minutes.

## TECHNICAL CHART

|                       |                           |
|-----------------------|---------------------------|
| Packaging             | 25kg/bag                  |
| Mixing Ratio          | 6-6.5L                    |
| Application Thickness | 2-20mm                    |
| Consumption           | 1.75 kg/mm/m <sup>2</sup> |
| Fluidity              | > 130 mm                  |
| Open Time             | >20 minutes               |
| Completely Dry        | After 24-48 hours         |
| Compressive Strength  | >10 MPa (28days)          |

*Note: Test results are carried out at 23°C and 50% ambient RH; product performance will vary according to onsite conditions.*

## PRODUCT LIMITATIONS

1. M610 Self-Leveling is intended for interior use only.
2. Do not apply over unstable subfloors (deflection exceeding L/360) or loosely bonded old floor coverings.
3. Avoid application when ambient temperature is below 5 °C or above 35 °C during application and initial curing (first 24 hours).
4. Mixing water temperature should be between 10 °C and 30 °C.
5. Do not use on sloped surfaces requiring drainage.
6. The product contains cement. Wear appropriate personal protective equipment (PPE) during handling and application.
7. This product reacts with water to produce a highly alkaline substance. Avoid contact with skin and eyes. In case of contact, rinse immediately with water. If injury occurs to the skin or eyes, seek medical attention without delay. Once hardened, the product will not have any harmful effects on health or the environment.

## PRODUCT MAINTENANCE

Properly installed M610 Ultra-Strong Cementitious Self-Leveling requires no special maintenance. It is not recommended to be used as a finished wear surface. If used as a wear surface, apply a properly selected curing agent, sealer, or coating to increase durability and stain/wear resistance.

## PACKAGING 25kg (55lbs) Paper-Plastic Valve Bag

## COVERAGE REFERENCE *Estimated at 1.75 kg/m<sup>2</sup>/mm; assuming per 25kg (55lbs) pack of M610 Self-Leveling:*

| Thickness | Coverage                                    |
|-----------|---------------------------------------------|
| 3 mm      | 4.8 m <sup>2</sup> (52 f <sup>2</sup> )     |
| 6mm       | 2.4 m <sup>2</sup> (26 ft <sup>2</sup> )    |
| 10mm      | 1.43 m <sup>2</sup> (15.4 ft <sup>2</sup> ) |

*Note: Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions.*

## STORAGE & SHELF LIFE

The shelf life of M610 Self-Leveling is 9 months from the date of manufacture when stored in a cool, dry location (23°C, 45% RH) and the product is kept in its original, unopened, and stretch-wrapped packaging. Do not stack over 1.5 tons of material on top of each pallet.

*\* Prolonged storage may affect application performance, typically causing a slight decrease in flowability and potentially lower final strength. For best results, it is recommended to use the product as early as possible within its shelf life.*

## EXECUTION STANDARD *JC/T 985-2017 Cementitious Self-Leveling Compound For Floors*

## SAFETY INFORMATION

### ***PLEASE READ THE SAFETY DATA SHEET THOROUGHLY PRIOR TO APPLYING THE PRODUCT***

Ensure suitable PPE (Personal Protective Equipment) such as protective gloves, respiratory, face, skin and eye protection are worn at all times while handling this product. Avoid breathing dust, fumes, gas, mist, vapors or spray. Avoid contact with eyes and skin. If this product comes in contact with skin, rinse with soap and plenty of water. If the product comes in contact with eyes, wash out immediately with water. Ensure adequate ventilation during mixing and application. Wash contaminated clothing before reuse. Keep out of the reach of children. Call a doctor if you feel unwell. Safety Data Sheet (SDS) is available on request.

## TECHNICAL SERVICES

Adhere to all product limitations, and if unsure about a particular application, contact Morient Mortar at:

USA: (908) 809-5672

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