

M530 HIGH-STRENGTH SELF-LEVELING



Technical Data Sheet

PRODUCT DESCRIPTION

M530 High-Strength Self-Leveling is a professional-grade, C30-rated cementitious self-leveling engineered for environments demanding superior structural integrity and high compressive strength. Specially formulated for high-flow applications and heavy-traffic zones, M530 creates a smooth, impact-resistant substrate in both industrial and commercial settings. It is also uniquely optimized for compatibility with high-performance reactive resinous adhesives, making it the premier choice for the secure installation of rubber and industrial flooring. With a versatile application range of up to 10 mm, it delivers a dense, sound foundation that ensures long-term performance and durability.



FEATURE

- Environmental-friendly formulation utilizing recycled materials
- Fast setting and low shrinkage
- Excellent compressive and flexural strength
- Good fluidity for rapid leveling
- Single coat thickness up to 10 mm
- Ready for flooring in 18 to 24 hours

SUITABLE SUBSTRATE

M530 High-Strength Self-Leveling is suitable for following substrates when the substrates are properly treated with an appropriate primer:

- Absorbent and Non-absorbent Concrete
- Cementitious Mortar Screeds
- Well-bonded Ceramic Tile
- Cement and Epoxy Terrazzo
- Exterior Grade Plywood and OSB

Note: A reinforcement with steel mesh is always recommended when applying over an nonabsorbent substrate to enhance bonding and system integrity.

SUBSTRATE PREPARATION

1. The substrate must be compliant, structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other matter that may act as a bond-breaker.
2. To ensure maximum bonding strength to the substrate, surface contaminants should be removed by mechanical methods such as grinding or shot blasting to achieve the required CSP.
3. Substrate cracks MUST be identified by type and appropriately remediated prior to the installation.
4. Concrete must be fully cured for 28 days old and treated for any hydrostatic moisture, rising damp or construction moisture as required prior to the installation. According to relevant needs for moisture control, select and apply M139 Water-Based Reinforcer or M190 Epoxy Moisture Barrier in replacement of the primer.

5. Smooth concrete surfaces, existing glazed tile, terrazzo, or polished stone need to be roughened or scarified to achieve the appropriate CSP.

PRODUCT APPLICATION

1. Pour 6 to 6.5 liters of clean water into a dust-free mixing bucket.
2. Slowly add the 25kg bag of M530 High-Strength Standard Self-Leveling into the bucket and mix mechanically with a suitable drill and paddle at 600-650 RPM.
3. Continue mixing for 2 minutes until the mixture is completely lump-free. Avoid overmixing or deviating from the specified water ratio.
4. Immediately after mixing, pour the product out and spread it to the desired thickness using a gauge rake.
5. Directly after dispersion, use a spiked roller or smoothing blade to level inconsistencies and break entrapped air bubbles for a uniform appearance.
6. Maintain a wet edge throughout the entire application to ensure a seamless finish. The open time for work of M530 High-Strength Self-Leveling is around 20 minutes with an ambient temperature around 20°C.

TECHNICAL CHART

Property	Results
Water-Powder Ratio	24-26% (by weight)
Applicable Thickness	Up to 10 mm
Pot Life (in bucket)	Around 20 minutes
Self-Healing Time	Around 20 minutes
Initial Flow	> 135 mm
Final Flow (20 min)	> 130 mm
28-Day Compressive Strength	>30 MPa (4,350 psi)
28-Day Flexural Strength	>6 MPa (870 psi)
28-Day Tensile Bond Strength	>1.5 MPa (210 psi)
Walkable After	4-8 hours
Time Before Installing Floor Covering	
Ceramic Tile/Non-moisture sensitive floor covering	>6-8 Hours
Resilient Floors/ Moisture-sensitive floor coverings	> 18-24 Hours

PRODUCT LIMITATIONS

1. M530 High-Strength 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.

PRODUCT MAINTENANCE

Properly installed M530 High-Strength Self-Leveling requires no special maintenance. When used as a finish or wear surface, apply a properly selected curing agent, sealer, or coating to increase durability and stain and wear resistance.

PACKAGING

- 25kg (55lbs) Paper-Plastic Valve Bag
- 20 kg sizing and 50 lb packaging re available upon request.

COVERAGE REFERENCE Estimated at 1.75 kg/m²/mm; assuming per 25kg pack of M530 High-Strength Self-Leveling:

Thickness	Coverage
3 mm	4.8 m2 (52 f2)
6mm	2.4 m2 (26 ft2)
10mm	1.43 m2 (15.4 ft2)

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

STORAGE & SHELF LIFE

The shelf life of M530 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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