

CARMELO

SELF LEVELING UNDERLAYMENT

(Mortero Autonivelante)

Cement-based Floor Underlayment



Product Description: SELF LEVELING UNDERLAYMENT is a poured-in-place, cement-based, non-structural floor underlayment that self-levels and cures to create a flat, hard surface on interior floors. It is used prior to installing any covering and helps level floors, correct horizontal surface defects, or serves as a follow-up to rough screed projects. Typical applications include commercial, industrial, and residential projects on new construction or for restoration over concrete flatwork, non-moving wood floors, flooring with cutback resin, and other porous and nonporous surfaces.

Advantages: With our unique mix design, strict quality assurance tests and processes, this Mortar self-levels for a smooth and easy installation, and has a high fluidity making it ready to pour and reducing Installation time. It also remains workable for more than 30 minutes with minor agitation, is not gypsum based and only requires the addition of water and has a rapid curing time for usability in 24 hours.

Industry Standards and Approvals: The product meets and exceeds the physical standards ASTM C 1708M Test Methods for Self-leveling Mortars Containing Hydraulic Cements¹.

Usage and Application:

The product levels rough concrete surfaces, for use under tiles, carpeting, hardwood floors, overcast-in-place and precast floors, or areas where quick turnaround is needed. It is also suitable for commercial structures, residential structures, and office complexes.

Surface Preparation: All surfaces must be sound and non-moving. The surface must be sound, clean, dry, and free from oil, wax, grease, carpet adhesives, asphalt, paint, curing membranes, latex compounds or other loose material and contaminants. Concrete surfaces must be fully cured a minimum of 28 days. Surfaces that are hard-troweled or burnished concrete must be opened by mechanical abrasion. Concrete should not be acid etched, since the acid weakens the surface and reduces the bond of the primer to the concrete. Failure to remove all contaminants and coatings that impede the bond of the primer to the surface will cause loss of adherence and reduced durability. Do not use Self-Leveling Mortar on painted, sealed or polished surfaces.

Mixing Ratio:

- 0.73 Gal (2.76 L) of water per 50 lbs. (22.68 kg) bag
- 0.73 Gal (2.76 L) of water per 50 lbs. (22.68 kg) pail

Mixing Instructions:

- 1 Verify that mixing tools and containers are clean before mixing.
- 2 Add the mortar to the water, not water to material.
- 3 Mix the product with the recommended water amount using a high-shearing action for at least 3 minutes, until it forms a smooth, fluid consistency without any lumps.
- 4 Do not add more water while mixing.
- 5 The presence of whitish lather on the surface indicates over watering. If this happens, discard the batch and reduce the amount of water in the next batch.
- 6 Excessive water will cause segregation.
- 7 Pour the product over the primed substrate until the desired thickness of at least 1/8" (3mm) and not greater than 4" (101.6 mm).

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Installation / Curing:

- 1 Place the product in lanes 15 feet wide, using foam tape or another suitable forming material.
- 2 Pouring the mix continuously back and forth within the formed area to achieve proper merging of the material. Adapt crew, equipment, and materials to make sure you can continuously place the product within 10-15 minutes.
- 3 DO NOT exceed 10-15 minutes in placing material.
- 4 To make the application more efficient and easier use self-leveling type pumps.

Storage: Store in a dry place with moderate temperature, making sure that it's protected against water or other external agents.

Protection of Work Area:

- 1 Do not allow contact with water during the first

Technical Data:

Yield or Coverage - Approximate Coverage per Thickness for a 50 lbs bag			
1/8" (3,2 mm) 40 sq. ft (3,71 m ²)			
1/4" (6,3 mm) 20 sq. ft (1,86 m ²)			
1/2" (12,7 mm) 10 sq. ft (0,9 m ²)			
Product Details			
Product Code:	Physical State:	Size + Packaging:	Colors:
MORAUTNIV (Bag) MORAUTNIV-G (Pail)	Powder	50 lbs bag 50 lbs Pail	Gray, Beige
Compressive Strength ASTM C 109 at 28 days		Bucket Life at 71°F / 20°C	Density
1 day - 1000 psi (6,9 MPa) 7 days - 4000 psi (27,6 MPa) 28 days - 7000 psi (48,26 MPa)		45 minutes	137 lbs/ft ³
Shelf Life + Application Properties			
Shelf Life	1 year in the original bag, in a dry covered place.		
Initial Setting Time at 72°F / 22°C	1 hour		
Final Setting Time at 72°F / 22°C	8 hours		
Working Time at 72°F	30 - 35 minutes		
ASTM 1583 (Pull Off Test)	100 PSI		

24 hours of curing.

- 2 After 24 hours, shrinkage hairline cracks can develop. These are not structural failures, but inherent characteristics of the material.

Warranty: Ecológica Carmelo warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other the purpose for which it is intended.

Health & Safety Precautions: This product contains Portland cement. Always use safety goggles and rubber gloves when using this product, since contact with freshly mixed cement can cause severe burns. Avoid direct contact with skin and eyes. If this product does come in contact with the eyes, immediately flush with water for at least 15 minutes and consult a physician. For skin exposure, wash promptly with plenty of soap and

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