



Starpatch Concrete Products

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Self-Leveling Mortar – U.L.O. - ULTRA

SELF-LEVELING, NORMAL SETTING UNDERLAYMENT ONLY - ULTRA

Description: *Self-Leveling Mortar U.L.O.-ULTRA* is a polymer modified, cement-based, normal-setting, self-leveling underlayment.

Uses: *U.L.O.-ULTRA* can be used wherever a smooth level surface is required for installation of interior floor coverings. Material can be bonded to concrete or wood substrates. This product has superior adhesion strength and finishes to a smooth professional finish. Product has also been formulated to flow freely to ensure an absolute leveled surface. Use for self-leveling floor slabs where a level surface is required prior to the installation of floor coverings.

Recommended Substrates:

1. Cured concrete with at least 28 days of curing – must be free of all moisture conditions.
2. Any structurally stable sub-floor. Contact Starpatch to review suitability of sub-floor.
3. DO NOT use *U.L.O.-ULTRA* on metal, particleboard, gypsum and other non-stable substrates.

Surface Preparation:

1. Thoroughly clean surface of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and adhesive residue. Concrete surfaces must be mechanically profiled and prepared.
2. Substrate should be free of all dirt, oils, dust, etc., or any other foreign material before application. In the case of dense, smooth concrete roughen the substrate by sandblasting, water jetting, shot blasting, scarifying or grinding. Clean surface properly after mechanical roughening.
3. Fill in deep areas, holes or cracks with appropriate concrete restoration materials.
4. Prime the substrate with *Starpatch Primeactive* bonding agent. Use a brush to work the primer into the substrate. Apply two coats of primer. The first coat should be dry before applying the second coat. You may apply the first coat of *Primeactive* the day before. Allow primer to become very tacky or dry completely before applying the self-leveling mortar. **The use of any other primer may result in a poor bond.**

Mixing Instructions:

1. In a clean mixing container pour in **4.3 Litres of Water (1.14 US GAL.)**. Do not over water.
2. Slowly add the entire contents of a bag of *U.L.O.-ULTRA* while mixing. Use a slow speed mixer (300-500rpm).
3. Mix thoroughly until a homogenous consistency is achieved. To avoid air entrapment, do no over-mix.
4. Allow the mixture to sit for 1 to 2 minutes. Stir the mixture briefly, and then apply the contents of the mixture on the surface as quickly as possible.

Application:

1. *U.L.O.-ULTRA* can be applied using pumping equipment.
2. Best results will be achieved when the material is applied in a continuous flow. Spread with a steel straight edge, a hand trowel or a squeegee.
3. The use of a spiked roller may be necessary to achieve a smooth transition from one mixture pour to the next.
4. Overworking the surface may cause air entrapment.
5. *U.L.O.-ULTRA* does not require surface troweling.
6. Protect finished surface from excessive heat and draft conditions.

Limitations:

- Recommended layer thickness of featheredge to 3/4".
- Temperature at time of application may not be lower than 5°C/41°F or greater than 35°C/95°F.

Curing:

- Protect from excessive heat, cold and draft conditions.
- Do not damp cure. Do not use curing compounds. DRY CURE ONLY.
- Use warm water (approximately 20°C/68°F) in cold weather.
- Protect from heavy foot traffic until final floor covering has been installed.

Technical Data

Mixing Ratio: 4.3 Litres Water per 50Lbs Bag.

Application Temperature Range: 5°C/41°F to 35°C/95°F.

Flowing Time at 20°C/68°F: 15 minutes.

Moisture Vapor Emission Rate: If your substrate has a MVER of 5lbs/per 1000 sq/ft or more install a suitable moisture barrier first.

Time Required Before Installation of Floor Coverings: Floor should cure for 3 to 7 days depending on temperature and humidity.

Coverage:

1/8"	45 sq. ft.	1/2"	11 sq. ft.
1/4"	23 sq. ft.		

Compressive Strength:

3 Day	13.8 MPa (2000 PSI)
7 Day	17.9 MPa (2600 PSI)
28 Day	30.3 MPa (4400 PSI)

Bond Pull Off Strength:

1.5 MPa (218 PSI)

Bucket Life: Approximately 30 minutes, at 20°C/68°F. Temperature and humidity variations will change pot life.

Final Set: 6 hours at 18°C. Temperature and humidity will affect setting and curing times.

Shelf Life: One year in original unopened container if kept in dry storage.

Colour: Concrete grey.

Packaging: 22.7 kg/50 lbs. Bag.

Caution: Contains cement, a polymer and other additives which may cause skin irritation. In case of skin or eye contact, wash thoroughly with water. Please consult the MSDS for detailed safety and handling instructions. In case of eye contact consult with nearest physician. **KEEP OUT OF REACH OF CHILDREN.**

Warranty: Starpatch Concrete Products warrants that if its products prove to have manufacturing defects and Starpatch is notified of such within 6 months from date of Starpatch shipping, Starpatch will replace the defective products F.O.B. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of all other warranties, expressed, implied or statutory and is strictly limited to its terms. Starpatch makes no warranty of merchantability or suitability of its products for any particular purpose. Starpatch sells its products upon the condition that the customers shall conduct their own tests to determine the suitability of the products for the customers intended purposes. Under no circumstances will Starpatch be liable for economic, special, incidental or consequential damages or losses of any kind whatsoever arising out of or occasioned by the selection, use, installation or replacement of this product.

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