



Ultra Level™ UL-221 Self-leveling Modified Mortar Underlayment

Description:

Ultra Level™ is a polymer modified mortar underlayment. This cement based self-leveling, only needs water to form a free flowing liquid mortar that seeks its' own level, thus producing a smooth, hard, flat surface free of cracks and imperfections. It is designed to eliminate areas that accumulate water and will correct imperfections, seal cracks, smooth rough surfaces and cause rain water to flow in a desired direction. Lanco® Ultra Level™ does not require trowelling for finishing, thus reducing time and labor. This product was developed for use in leveling roofs and floors and will level surfaces up to 1 1/2" thick.

Product Advantages:

- Modified with polymers
- No need to trowel
- Eliminates bond failure
- High strength and durability
- For repairs from 0" up to 1.5"
- For Interior and exterior use
- Used over a wide variety of substrates.
- Pours 1/8" to 1 1/2" in thickness

Uses:

Ultra Level™ is designed for industrial, commercial and residential application on new or previously coated concrete surfaces, bonded cement tiles and others. All substrates should be in sound solid condition.

Product Data:

Product Type:	Modified concrete
Finish color:	Grey
Flow Time:	15-25 minutes @ 70°F
Pot Life:	30 minutes @ 70°F
Working Time:	20 minutes @ 70°F
Compressive Strength: ASTM C109	7 days 2580 psi 28 days 4400 psi
Initial Set: ASTM C191	90 minutes @ 70°F
Final Set:	3 1/2 hours @ 70°F
Flexural Strength: ASTM C348	28 days 850 psi
Tensile Strength:	28 days 420 psi
Bond Strength:	28 days 400 psi
Storage Life:	1 year <i>*kept dry in original containers</i>

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.

S.D.S.: Available upon request.

Coverage:

Coverage	Thickness	Area (sq.ft.)	40 lbs. Bags	Weight (sq.ft.)
	1/8"	40	1	1.2 lbs.
	1/4"	20	1	2.4 lbs.
	1/2"	10	1	4.8 lbs.
	3/4"	10	2	9.6 lbs.
	1"	10	2	10.6 lbs.

Ultra Level™ UL-221 will cover approximately 40 ft.² per 40 lb. bag at a 1/8" (3mm) thickness or 20 ft.² per 40 lbs. bag at 1/4" thickness. Apply or pour the prepared product over surface and it will find its' own level within 20 minutes. If a second layer is required, wait after the first layer is dry and hard enough to walk over, use CB9000 Concrete Admixture as a wet bonding primer, while CB9000 still wet, apply a second coat of Ultra Level™ UL-221 and let it dry.

When multiple applications are required to achieve a thickness greater than 2" a structural engineer should be consulted.

Mixture Instructions:

Always mix thoroughly before application. Mix the 40 lbs. bag of powder with 6 1/4 quarts of clean water. Add the powder to the water slowly while mixing with a heavy-duty electric drill (1/2") affixed with mixing paddle at 650 rpm. Mix thoroughly for 2 to 3 minutes until a lump free consistency is obtained.

Surface Preparation:

Surfaces must be clean and free from dust, loose particles, oils, surface hardeners, paint and other anti-adherents such as wax, sealers or any other foreign material before application.

Concrete: Surfaces should be fully cured (sitting for at least 28 days). Also, surface should be rough to ensure a good adhesion and should not be subject to hydrostatic pressure.

Special Surfaces: When working over smooth surfaces like terrazzo, marble, quarry tiles or ceramic, the area must be roughened first by mechanical abrasion processes. Do not use acid to provoke abrasion. Acid weakens the surface and impedes the product from adhering adequately to the surface.

Wood: This product is not recommended for use on wooden surfaces.

Application Method:

First Coat: Using clean water wet the entire surface to be treated (do not leave area with ponding water). Apply and/or pour the mixed product onto the surface since it will level itself within the first 20 minutes.

Note: It is important to pour enough material to cover the whole area in one single application to avoid cold joints between different pours. Calculate needed material in coverage section.

Important: Do not apply mortar mix at temperatures above 85°F. It is recommended to apply product early or late in the day. Before applying product make sure there is no rain forecast for the day.

Second Coat: If a second coat is needed, apply as soon as the applied product is dry and hard enough to be walked on. If the first layer is dry for more than 8 hours, apply a coat of Lanco® CB-9000 using a roller, until the adhesive is wet or sticky/activated (non-dry) before applying the new mix of Lanco® Ultra Level™.

Additional Coats: If multiple applications are needed (2 or more) to achieve thicknesses higher than 1 and a half inches, it is recommended that a structural engineer inspects the project.

Clean-up: Clean all equipment immediately after use with warm soapy water. Fresh mastic may be removed with a wet soapy cloth. Dried adhesive may be removed with a razor blade. Keep tools in water when not in use.

Additional Information:

Warranty: This product's warranty is limited to its replacement or refund of its retail value if it should fail to comply with the manufacturer's specification and does not include the application cost. For any reclaim, customer must present original proof of purchase.

Limitations: This product cannot be used on gypsum-based surfaces, "Particleboard, plastics or plastics or metal. Use in temperatures between 40 °F and 85 °F.

Caution: This product contains the following chemicals reportable under 29 CFR 1910.1200 OSHA U.S. Federal Agency. Crystalline silica, quartz-carcinogen (Pulmonary Fibrosis), Portland Cement (irritating to eyes and skin). This product contains chemicals recognized by the State of California to cause cancer, birth defects and other reproductive system injuries.

Personal Protection During Usage: Wear safety glasses and gloves to avoid contact with eyes and skin. Avoid contact with eyes and skin. Wash thoroughly after handling material. If contact with eyes flush with water for 15 minutes. If problem persists, call a physician immediately. In case of contact with skin wash immediately with water. Discard and wash contaminated clothing and shoes immediately. Do not breathe dust. This product contains free crystalline silica, which can cause cancer and lung injury (Silicosis). When mixing the product or if area is filled with product dust, always use a breathing mask that has been approved for hazardous dust. Do not ingest. If ingested by mistake, dilute by drinking 1 to 2 glasses of water. Do not induce vomiting. Call a physician immediately. In the event of a chemical emergency, spill, leak, exposure or accident call CHEMTREC day or night: 1-800-424-9300. Mix in properly ventilated areas only, and always use respiratory protection. For more information see materials safety data sheet (MSDS). Keep out of reach of children. Contains Portland cement 65997-15-1 CAS / Silica Quartz. CAS 14808-60-7 Asbestos free, protect adhesive from moisture

