



LevelBond™ QS 9951

Fast-setting self-leveling underlayment

Product Description

LevelBond QS 9951 is a fast-setting, high-performance, self-leveling underlayment for interior applications under all types of floor coverings.

Features

- Outstanding flow and healing.
- Meets minimum compressive strengths of all floor-covering manufacturers as a floor-covering underlayment.
- Smooth finish.
- Wide range of thickness recommendations.
- Rapid-setting properties.
- Allows for wood and impervious floor coverings to be installed after 24 hours.
- Allows for ceramic tile and natural stone to be installed after 3 to 4 hours.
- Compatible with adhesives and mortars.

Uses

- For interior use only.
- Can be used over radiant-heated substrates including in-floor cable and most mat systems.
- Apply when the substrate temperature is between 7°C and 35°C (45°F and 95°F).
- Do not use over presswood, particleboard, chipboard, Masonite, Lauan, gypsum underlayments, metal or similar dimensionally unstable material.
- Use at thicknesses from featheredge to 3,8 cm (1-1/2").

Substrate Requirements

All surfaces must be structurally sound and clean of all substances that can impair the bond to the substrate. These include, but are not limited to, concrete sealers or curing agents, existing adhesive, dirt, wax, tar, paint and loose toppings. If the surfaces contain these substances, they must be mechanically removed.

TECHNICAL QUICK REFERENCE

Approximate Coverages* and Recommended Thicknesses

(based on 22,7 kg [50 lbs.])

3 mm (1/8")	4,46 m ² (48 ft. ²)
6 mm (1/4")	2,23 m ² (24 ft. ²)
12 mm (1/2")	1,11 m ² (12 ft. ²)
2,5 cm (1")	0,56 m ² (6 ft. ²)

* Coverages are for estimating purposes only. Actual coverages may vary according to substrate condition, thickness variations and application practices.

Product Characteristics

Pot life	20 to 30 minutes
Flow time	About 15 minutes
Time before walking on*	90 to 120 minutes
Time before ceramic tile*	3 to 4 hours
Time before impervious flooring*	About 24 hours
Compressive strength (ASTM C109)	
1 day	16,6 MPa (2,400 psi)
7 days	24,8 MPa (3,600 psi)
28 days	31,0 MPa (4,500 psi)
Mix ratio	5,39 L to 5,68 L (5.7 to 6 U.S. qts.) of water per 22,7-kg (50-lb.) bag
Cleanup	Clean with water before material hardens.
Health and safety	Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

* Set times vary depending on temperature and humidity.

We proudly support the following industry organizations:



Approved Substrates Properly Prepared

- Fully cured concrete (at least 28 days old).
- Cement backer units.
- Group 1 exterior-grade plywood, CSA 0121.
- Cementitious mortars and leveling coats.

Technical Information

Over concrete: Concrete substrates should be prepared to a CSP #3 profile, and demonstrate suitable porosity for primer penetration.

Consult the floor-covering or coating manufacturer's recommendations regarding the maximum allowable moisture vapor emission rate (MVER) and retained moisture content in the substrate. Do not install on substrates with an MVER exceeding 2,27 kg per 92,9 m² (5 lbs. per 1,000 ft.²) per 24 hours using a calcium chloride test (reference ASTM F1869). **Over plywood:** *LevelBond Primer 9943* can be used over plywood subfloors (exterior-grade plywood, two layers, at least 3,2 cm [1-1/4"] thick, meeting a minimum deflection criteria of L/360 - live and dead loads considered). Alternately, installations can be considered over single-layer plywood when reinforced with diamond mesh to ensure mechanical bond. Note: In applications over wood, the user can expect hairline cracking on wood joints.

Consult Technical Services (1-888-243-6263) for installation recommendations regarding substrates and conditions not listed.

Priming

LevelBond QS 9951 has a priming system called *LevelBond Primer 9943*. This mandatory initial step ensures positive bond line adhesion as well as uniform surface consistency. For information, refer to the Product Data Sheet for *LevelBond Primer 9943*.

Mixing (for a 22,7-kg [50-lb.] bag)

1. Mix full bags only.
2. Pour about 5,39 L to 5,68 L (5.7 to 6 U.S. qts.) of clean water into a clean mixing container measuring 18,9 L (5 U.S. gals.) or greater.
3. Gradually add the *LevelBond QS 9951* powder while mixing with a high-speed mixer (at 1,000 to 1,200 rpm).
4. Mix for 3 minutes to a smooth, lump-free consistency.
5. *LevelBond QS 9951* needs no time to sit ("slake").

Application

1. Before installation, close all doors, windows and ventilations systems to prevent drafts from blowing on the fresh material. Also protect from direct sunlight. Substrate and room temperature should be between 10°C to 35°C (50°F to 95°F).
2. Set the width of the pour at a distance that is ideal for maintaining a wet edge. Larger rooms may require bulkheads to shorten the pour length. *LevelBond QS 9951* has a flow time of about 15 minutes.

3. When pouring, use a self-leveling gauge rake to place the material at a specific thickness. Surfaces that have significant undulations may require surveying the floor and setting elevations pins before application.
4. For areas requiring deep pours greater than 3,8 cm (1-1/2"), extend with coarse, nonreactive aggregates (up to 30%).
5. To achieve superior finished results, roll a spike roller immediately after the underlayment is poured.
6. *LevelBond QS 9951* hardens within 2 to 3 hours, and it can accept the installation of ceramic tile and natural stone in 3 to 4 hours. Resilient floor coverings such as carpet, PVC, rubber and wood can be installed after 24 hours of placing *LevelBond QS 9951*.

Expansion and Control Joints

1. Respect and continue expansion and control joints from the existing concrete through to the new material.
2. If existing concrete does not have control joints, cut them as soon as the surface is reasonably hard to walk on (in 3 to 4 hours).
3. For radiant-heated floors, install perimeter expansion material along restraining surfaces such as walls, columns and counters.

Protection

1. Provide for dry, heated storage on-site and deliver materials at least 24 hours before application begins.
2. Protect the surface from contamination and water intrusion that may affect the bond of the flooring installation.

Important Notice

Before using, user shall determine the suitability of the product for its intended use, and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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For the most up-to-date information on this product, visit www.chembond.com.