



Concrete Admixtures and Fiber

IMILEVEL

Self-Leveling and Leveling Composition

DESCRIPTION

IMILEVEL is a self-leveling and self-finishing polymer modified cementitious underlayment. Use IMILEVEL as an underlayment for interior applications.

USE

IMILEVEL is used for new concrete, old concrete, tile or terrazzo, wood and special shot-blasted surfaces.

APPLICATION

Surface Preparation - Typical for All Surfaces:

- 1. Floor should be free of oils, waxes, curing compounds, sealers and any foreign material.
- 2. Clean floors with a mechanical scrubber with a vacuum pick-up or shot blasting equipment to remove dust and dirt. DO NOT broom sweep.
- 3. Use hand metal scrubbers. Mop or wet dry vacuum in small areas where a mechanical scrubber is impractical. NOTE: Refer to specific floor sections below for further instructions.

Primer Application: PLASTBOND FL, a special adhesive agent made especially for IMILEVEL, is critical to the installation of IMILEVEL. The purpose of PLASTBOND FL is to seal the surfaces which otherwise absorb water from the material and do not allow proper hydration or provide a suitable surface for the adhesion of IMILEVEL.

1. The PLASTBOND FL comes ready-to-use. Coverage is 100-300 square ft. per gallon(2.5-7.4 m²/L) depending on the porosity of the surface.
2. Apply with a mop or broom. Drying time is 2-3 hours at 75°F(23.9°C) but slightly longer with a decrease in temperatures and slightly less with an increase in temperatures. PLASTBOND FL will remain slightly tacky when dry. NOTE: Poor ventilation will delay normal drying time. Fans will help increase circulation to decrease drying time.
3. Any PLASTBOND FL puddled in low areas should be wiped up.
4. Primed surfaces are good for 24 hours providing it is not subjected to traffic. If the placing of the leveler exceeds 48 hours or there has been traffic across the floor a re-application of primer is necessary.
5. Very porous surfaces require at least two applications of PLASTBOND FL. The first application may be diluted at a ratio of 1:1 with water and the second coat at full strength.
6. It is recommended that in all cases a primer test be performed prior to placing IMILEVEL. Refer to the "New and Old Concrete" instructions.

New and Old Concrete Surfaces:

- 1. Surface should be hard, dense and nondusting.
- 2. Surface should be twenty-eight days or older and free of all curing agents, sealers etc.
- 3. Patching materials that are loose or unsound should be removed. **Refer to "Special Surfaces" for further details.**
- 4. Test the PLASTBOND FL on the prepared surface to insure good adhesion: STEP A. Apply the PLASTBOND FL to a 4' by 4'(1.22 m x 1.22 m) area with a broom or mop and allow it to dry. STEP B. Using the pointed end of a knife or a sharp device, scrape through the PLASTBOND FL. If the PLASTBOND FL can be peeled up, it is not a suitable application. If the scraper only scratches the PLASTBOND FL, the surface is suitable for application.

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Tile and Terrazzo Surfaces:

- 1. Must be free of all waxes, sealers, oils or grease and any loose or foreign material.
- 2. The PLASTBOND FL test is critical. Refer to the PLASTBOND FL instructions in "New and Old Concrete."

Wood Floors:

1. Refer to the general procedures for "New and Old Concrete", steps 1-4
2. The construction of the floor should be sufficient for the intended loading and use without any flexing or moving.
3. Because concrete and wood have very different expansion movement characteristics it is recommended that reinforcing such as hardware cloth be used and attached with staples on a minimum of 12"(30.5 cm) centers
4. PLSTBOND FL can be applied before or after the installation of wire

Wear Surface: IMILEVEL can be used as an interior wearing surface for foot traffic when coated with an appropriate IMILEVEL sealer. Please consult IMILEVEL for specific recommendations for your application.

Shot Blasted or Sanded Surface:

- 1. Refer to the general procedures for "New and Old Concrete," steps 1-4.

These surfaces can be very dusty requiring extra care in removing dust.

Because these surfaces are more porous, extra PLASTBOND FL will be required.

A test patch should be applied to determine if surface is properly primed and sealed. Numerous pinholes appearing either during or after placing the primer indicates the floor is not adequately primed and sealed.

Special Surfaces: Special surfaces require special procedures and should be referred to the manufacturer's representative. Special surfaces such as: Gypsum, latex cement, lightweight concrete, ceramic tile and vinyl tile.

Material Installation - Hand Equipment Required:

1. 1/2"(1.27 cm) electric drill 6.50 r.p.m.
2. Marked container for measuring water.
3. Mixing container size: minimum 5 gal. pail(18.9 L), a 15 gal. pail(56.7 L) is recommended.
3. Mixing paddle: wire or egg beater type.

Mixing: Place pre-measured water into mixing container. Start drill and add IMILEVEL slowly but DO NOT exceed two to three minutes. Water may be adjusted slightly to produce desired consistency. CAUTION: Excessive water will cause segregation and cracking; reducing compressive strength resulting in bond failure.

Water Requirements: Interior 45 lb. IMILEVEL (1bag)(20.4 kg) 9.5 - 10.5 pints of water (4.5-4.9L)

Note: The data shown is based on controlled laboratory testing. Reasonable variation from results shown can be expected. Field and laboratory testing should be controlled on the basis of the desired placing consistency, rather than strictly on the water content.

Placing: It is recommended that placing should be in lanes 15' (4.6 m) in width formed using foam tape or other suitable forming material. Place in a continuous operation by pouring back and forth within the width of the formed area. It is important that this be done in a continuous operation to achieve proper merging of the material. DO NOT exceed 2-3 minutes in placing material. Crew sizes, equipment and material should be of such a size to continuously place in 2-3 minutes.

Pumping: There are various types of pumps manufactured and available for the application of IMILEVEL . Consult with your local representative for their names, availability and recommendations.

PACKAGING: 45 lb. triple lined bag (20.4 kg)

STORAGE: Shelf life is one year. Store in a cool, dry location.

LIMITATIONS

DO NOT place at temperatures below 50°F(10°C) or if the temperature is expected to fall below 50°F(10°C) in the next twenty-four hour period. Severe variation of 1" (2.54 cm) or more over 1' (.30 m) or less should be referred to manufacturer for proper procedure. Wind over 5 m.p.h. can dehydrate IMILEVEL and cause cracking. Unless area of application can be protected from wind, application should be postponed until there are favorable conditions. Temperatures in excess of 80°F(26.7°C), ambient or surface, can cause flash set and dehydration, resulting in cracking and debonding. IMILEVEL utilizes a rewettable primer. Do not place in submerged or continuously wet environments. Use CEMPOL for this type of application.

IMILEVEL APPLICATION PROPERTIES

Working Time (depending on environment)	
Interior	10 - 25 minutes
Setting Time (ASTM C-266)	
Initial	50 - 75 minutes
Final	2 hrs. - 2 hrs., 30 min.
Avg. Compressive Strength, w/m = 0.21 (ASTMC-109)	
1 day	1500 psi min. (10.3 MPa)
7 days	3500 psi min. (24.1 MPa)
28 days	6000 psi min. (41.3 MPa)
Tensile Strength (ASTM C-307)	
1 day	300 psi (2.1 MPa)
7 days	500 psi (3.4 MPa)
Expansion (ASTM C-157)	
1 day	.001%
7 days	.001%
28 days	.002%
Bond Strength (tension)	
7 days exceeds	200 psi (1.4 MPa)
Shear Bond Strength (ASTM C-1042)	
14 days	1054 psi (7.3 MPa)
Coverage of 45 lbs. at 1/4"	22 sq. ft. (2.04 sq. m.)
Water Requirements for 45 lbs.	1 bag) 1.18 to 1.31 gal. (4.5-5 L)
Mixing Time	2 - 3 minutes
Maximum Depth	1" (2.54 cm)

