

Description:

LF-W is a Cement based, self curing, self leveling floor underlayment that is used to create a level, flat and durable surface prior to the installation of finished floor coverings. Mixed with water only, LF-W's high polymer content and Fiber reinforcement creates an excellent bond various substrates such as concrete, pvc, vct, wood, ceramic and quarry tile.

LF-W provides a substrate which can accept ceramic tile and natural stone within 3-4 hours after application. Finished floor coverings such as carpet, VCT, Vinyl sheet goods, rubber, epoxy, and engineered wood plank can be installed in as little as 24 hours.

Advantages:

- LF-W is suitable for use on residential, commercial, and institutional applications.
- Ideal for pumping and barrel mixing applications
- Maintains healing properties for over 25 minutes
- Water Resistant - Non Gypsum based
- Contains no protein additives.
- Installs from 0 to 1½" neat and up to 5" with aggregate
- High early strength, walkable in just 3-4 hours
- Compatible with most flooring adhesives
- No dangerous emissions or irritating fumes

Compressive Strength (ASTM C 109):

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| 4 Hours | 1000 psi | 6.9 MPa |
| 1 Day | 3000 psi | 20.7 MPa |
| 7 Days | 4500 psi | 31.0 MPa |
| 28 Days | 5000 psi | 34.5 MPa |

Flexural Strength (ASTM C 348):

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| 28 Days | 1300 psi | 8.9 MPa |
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Set Times (ASTM C 191):

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| Working Time | 30+ Minutes |
| Initial Set | 1.5 Hours |
| Final Set | 2 Hours |

Application Temperature Range:

50°F – 95°F

Mixing Ratio:

5.0 quarts to a maximum 5.5 quarts per 50 lbs bag.

Flammability: (ASTM E84):

Flame Spread: -0-
 Fuel Contribution: -0-
 Smoke Development: -0-

Approximate Coverage:

50 sq. ft. per bag at 1/8"
 25 sq. ft. per bag at 1/4"

Density:

Approximately 120 - 125 lbs per cu. ft.

Substrate Preparation:

Concrete Floors: Substrate must be well-bonded and completely clean; free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminate that will act as a bond-breaker. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means. Acid etching or chemical cleaning is not acceptable. Expansion Joints in the concrete substrate must be reflected through the applied layer of Level Finish.

Over Cutback and Adhesive Residue: Cutback and adhesives may contain asbestos fibers whose inhalation is harmful. Consult government agencies for rules concerning the removal of asbestos containing flooring and adhesives. Mechanically remove adhesive residue to a translucent, clean, well bonded film. Level Finish can be installed over non-asbestos adhesives if the residue is solid, well bonded to the substrate and not affected by water. Avoid applications where heat may soften the adhesive causing de-lamination.

Wood Surfaces: Wooden sub-floors such as 3/4" tongue and groove, APA rated Type 1, Exterior Exposure plywood and parquet must be clean, free of varnish, shellac or any contaminant that hinders bond. If needed, sand down to bare clean wood. Do not use chemical cleaners. The substrate must be solid and secure to provide a rigid base. Any moving boards should be re-nailed and open joints filled with Ultra Finish. Prime the substrate as outlined in "Substrate Priming".

Non Porous Substrates: Terrazzo, ceramic and quarry tile, burnished concrete, and epoxy coatings must be solid, well bonded, clean and free of any bond breaking contaminants such as glazes, wax, oil, sealers etc. Surfaces must be mechanically abraded until a "profile" is obtained. Vacuum all debris, dust and loose material prior to installing the primer.

Steel Decking: All metal sub-floors must be clean and free of rust, oil, grease, and all other contaminants. Steel decking must be structurally sound and properly anchored. Metal foils must be completely bonded to the substrate. Sandblast, wire brush or use other mechanical methods to remove rust and other contaminants from the surface of the metal. For steel decking, paint the surface with an anti-corrosive coating to prevent rust from recurring. Aluminum, copper and lead do not require this treatment.

Substrate Priming:

Concrete: All substrates must be clean and dry before primer is applied. Sub-floor temperature must be at least 50°F. One Gallon of LF Primer mixed with one gallon of clean potable water will cover approximately 350 – 400 sq. ft. of floor area. Primer must be applied evenly with a nylon push broom with exploded tips. Do Not use paint rollers, mops, or spray equipment. Apply a thin primer layer leaving no bare spots, puddles or excess primer. Allow to dry to a clear, thin film.

Important: LF-W must be applied within 48 hours of priming to insure that a good bond is achieved between primer and the substrate.

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Non-porous Sub-floors, Wood, Cutback and Metal: Prime with EP-440. Mix Part A (Blue) with Part B (white) and apply in as thin a layer as possible using a squeegee or a short-nap or sponge paint roller, leaving a thin coat of primer no heavier than a thin coat of paint. Do not leave any bare spots. Brush off puddles and excess primer. Allow to dry to a thin, slightly tacky film (min. 3 hours, max. 24 hours). Cutback and other adhesive residues require that the primer dry for a minimum of 18 hours.

Caution: EP-440 Epoxy Primer must be applied in a thin layer within one hour of mixing. A thick coat will produce a soft and rubbery surface which can result in cracking

Mixing and Installation:

Important: To insure installation success, be sure to test a small area for compatibility, bond strength and performance.

Note: Before application, close all doors, windows and protect from direct sunlight. These variables can cause uneven curing patterns.

Note: CMP also recommends setting up a "mixing station" where all product mixing takes place. Dusting usually occurs in the area where the product is mixed and could have a negative affect on the products bond to the substrate. Limiting the area's where mixing occurs can assure that the floor will be kept clean and "Bond-Breaker" free.

Manual Installation:

Mix 2-bags of LF-W at a time. For each bag add 5.0 to a maximum 5.5 quarts of clean potable water into a mixing drum. Then, add the bags of LF-W while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650rpm). Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water.

Pour the blended LF-W on the floor and disperse with the CMP-GR-1 gauge rake, followed by smoothing the material with the CMP-SP-1 smoother. Cleated shoes must be worn to avoid leaving marks. LF-W will maintain its workability

Pumping Applications:

Please contact CMP Specialty Products, Inc for instructions on recommended pumping procedures and equipment.

Extension:

LF-210 can be installed from featheredge up to 1.5" neat and up to 5" with proper aggregate. Please contact CMP's technical service department regarding job specific extension procedures.

Curing:

LF-210 is self curing self leveling underlayment. Do not use damp curing methods or curing and sealing compounds. LF-210 is walk-able within 3-4 hours after installation is completed.

Protect LF-210 from excessive heat conditions during its initial curing stage. Turn off all forced ventilation and radiant heat systems for the first 24 hours

Application Tools:

- CMP-MD-1 Mixing Drum
- CMP MP-1 Mixing Paddle
- CMP GR-1 Depth Gage Spreader
- CMP SP-1 Surface Smoother
- 1/2" Heavy Duty Drill

Clean Up:

Use water to clean all tools prior to material hardening.

Packaging:

50 lbs. Bags / 50 bags per pallet / 2500 lbs per pallet
3000 lbs "Super Saks"

Storage:

Always keep in cool/dry place unexposed to sunlight.

Shelf Life:

12 months from the manufactured date.

Health and Safety:

Refer to the MSDS before using this product.