

LEVEL-Patch-FF

Rapid setting, interior, horizontal concrete Floor Finish

CSI Div. 03

03 54 16 Hydraulic Cement Underlayment

LEED Points

MR Credit 5.1, Regional Materials.....Up to 2 Points
 IEQ Credit 4.2, Low-Emitting Materials Paints and Coatings...1 Point
 Using this AQUAFIN product can help contribute to LEED certification of projects in the categories shown above.

Product Description:

LEVEL-Patch-FF is a one component, cement-based, latex modified, ultra fine textured, rapid setting, skim coating and patching compound. Use LEVEL-Patch-FF to skim coat and smooth minor surface defects or variations on concrete substrates. Rapid setting, LEVEL-Patch-FF, creates a strong, durable surface for fast-track flooring installations in ~15-20 minutes after application.

Typical Applications:

- Use for skim coating/smoothing rough-textured concrete substrates and approved wood sub floors/underlayments, vinyl, adhesive residue, ceramic tile and metal.
- Fill minor voids, holes and cracks in concrete.
- Interior residential homes, apartments and condominium complexes.
- Interior commercial buildings, hospitals, hotel rooms/lobbies, restaurants, schools and cafeterias.
- Deteriorated concrete repair mortar edges.

Advantages:

- Apply from featheredge to 1/2" (12.7 mm).
- Cover virtually any floor surface (including ceramic tile).
- Compatible with most flooring systems and adhesives.
- Provides good bond surface for floor covering adhesives.
- Mixes easily to a smooth creamy consistency.
- 15 minute pot life.
- One component - just add water.
- Rapid setting; ready for most floor-covering applications in ~15 minutes.

Substrate Preparation:

- Substrates must be of load bearing capacity, free from dirt, dust, wax, grease, oil, paint, sealers, curing compounds, solvent, laitance, loose toppings, gypsum materials, form release agents or any foreign substances that could interfere with adhesion of material.
- Only proceed with application when the temperatures remain between 50°F and 90°F (10°C and 32°C). In colder conditions use indirect auxiliary heaters to maintain ambient and substrate temperatures within the required range. Protect from temperatures falling below 50°F (10°C) within 72 hours of installation. For temperatures above 85°F (29°C), follow ACI hot-weather application guidelines to ensure a successful installation.
- Concrete surfaces: If necessary, remove all foreign matter by mechanical means. Floor must be free from excess moisture and efflorescence. To

Technical Properties:	
Physical state	Powder
Color	Dark Gray
Thickness	Featheredge to 1/2" per layer
Flammability	Flame Spread: 0 Fuel Contribution: 0 Smoke Development: 0
VOC Content	Zero g/L
LEVEL-Patch-FF mixed	
Mix ratio by weight: 3:1 powder to water	10 lb powder : 1.6 quarts water (4.5 kg powder : 1.5 L water)
Application temp. range	50°F to 90°F (10°C to 32°C)
Working time	~15 minutes
Final Set Time	~30 minutes
Flexural strength	~1,100 psi
Compressive strength	~3,200 psi
Coverage per 10 lb. unit	Up to 33 ft ² @ 1/8" thickness 100 - 300 ft ² . (9.0-27.5 m ²) per bag (skim) Coverage varies depending on the texture of the surface being smoothed.
Physical Properties: The values stated are applicable with ambient temperatures of 70°F in a controlled environment.	
Storage/Shelf Life/Packaging	
Cool and dry, 6 months in original sealed packaging	10 lb pail (4.5 kg)

check moisture, test with a calcium chloride test (ASTM F1869-16) or relative humidity with an RH test (ASTM F2170-09) to meet the requirements of the final finished.

- Existing Ceramic Tile, Quarry Tile, etc.(not Vinyl - VCT & VAT): Must be well bonded. Tile surface must be clean, sound, and free of dirt, debris, waxes, and/or any other contaminants that may inhibit bonding. For best results, prime with Aquafin's SLU-PRIMER, allow primer to become tacky, and then apply Level-Patch-FF.

Priming:

Properly prepared cementitious substrates do not require a primer. Prime all non-absorptive substrates with an appropriate primer such as Aquafin's SLU-PRIMER. Refer to Aquafin's SLU-PRIMER TDS.

Mixing:

MIXING RATIO:

- 10 lb powder : 1.6 quarts water [3:1 powder to water (by weight)]
DO NOT OVERWATER

LEVEL-Patch-FF

- **Mixing:** Use a clean mixing bucket and add 1.6 quarts water cool clean water. Pour LEVEL-Patch-FF powder into pail and mix thoroughly to a lump-free, trowelable, smooth consistency. During mixing, use a trowel to scrape the inside of the mixing bucket, ensuring a homogenous mix. For best results use a mechanical mixer at approximately. 500 - 700 rpms. Do not mix more material than can be placed in 15 minutes. Do not extend pot life by adding water after already mixed.

Application:

Read all instructions thoroughly prior to installation. Pour LEVEL-Patch-FF onto prepared substrate and evenly spread the material with a trowel. Work material into the entire substrate and make sure to fill all surface voids to promote proper bonding. Avoid applying LEVEL-Patch-FF more than 1/2" (12.7 mm) thickness in one lift. Deeper fills may be achieved with multiple lifts. Always allow previous lifts to dry completely before additional lifts. LEVEL-Patch-FF can be featheredged to less than 0.1 mm thickness.

Limitations:

- Do not bridge moving cracks or joints.
- Do not add admixtures or extend with aggregate.
- Protect from freezing and exposure to water for 24 hours after application.

Curing:

LEVEL-Patch-FF is self-curing. Do not wet cure or use curing and sealing compounds.

Note:

Proper application is the responsibility of the user. Field visits by Aquafin personnel are for the purpose of making technical recommendations and not for supervising or providing quality control on-site.

Clean-up:

Promptly wash hands and tools with water before material hardens. Cured material must be removed mechanically.

Safety:

Refer to SDS. KEEP OUT OF REACH OF CHILDREN.

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

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