



PART 1 - GENERAL

1.01 SUMMARY

- A. Description of Work: Work of this sections includes self leveling underlayment for interior finish flooring but is not limited to, the following:
 - 1. LEVELROCK[®] QUIKTOP[™] Floor Underlayment covering normal project conditions and applications.
 - 2. Division 3 Section “Concrete Toppings” applied over various substrates.
 - 3. Division 9 Sections for patching and leveling compounds applied with finish flooring.

1.02 REFERENCES

- A. ASTM C472 compressive strength.
- B. ASTM F1869 calcium chloride test.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. See Section 9 for acceptable flooring materials including vinyl, tile, wood, and laminates.
- B. See Section 9 for approved coating manufacturer- Sika Corp.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer’s specifications and installation instructions with project conditions and materials clearly identified or detailed for each required product or system.

1.05 SYSTEM REQUIREMNETS

- A. Performance Requirements:
 - 1. LEVELROCK[®] QUIKTOP[™] Floor Underlayment
 - a. Minimum compressive strength 5,000 psi.
 - b. Minimum density 130 pounds per cubic foot.

1.06 QUALITY ASSURANCE

A. Performance Standards:

1. Colors, coatings, or textures will vary based on job conditions. Final determination should not be made from a sample alone. A mock up or larger sample should be provided for final approval prior to the application of the coating system.
2. All materials, unless otherwise indicated, shall be manufactured by the United States Gypsum Company and shall be installed in accordance with its current printed directions by USG authorized LEVELROCK® Brand Applicators.
3. Product compatibility: Manufacturer's of both underlayment and coating system certify in writing that products are compatible.
4. Underlayment mix shall be tested for a slump using a 2 inch (i.d.)x1 inch cylinder resulting a patty size of 7 – 8”.
5. At least one set of three molded cube samples taken in a brass mold shall be taken from each day's pour or every 10,000 square feet which ever is less during the underlayment application. Cube shall be tested in accordance with ASTM C472.

1.07 DELIVERY, STORAGE AND HANDLING

- A. All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure from the elements. Damaged or deteriorated materials shall be removed from the premises.

1.08 PROJECT CONDITIONS

- A. Before, during, and after installation of product, building interior shall be enclosed and maintained at a temperature above 50° F.
- B. Provide adequate ventilation and heat to allow for drying of product.
- C. After installation Protect floor with plywood for heavy traffic areas and non staining paper for all other areas.

PART 2 - GENERAL

2.01 PRODUCTS AND MANUFACTURERS

- A. Manufacturer: USG Corporation
1. 550 W. Adams St., Chicago, IL 60661; Telephone (312) 436 4510;
www.levelrock.com

2.02 MATERIALS

A. Proprietary products/systems: Poured flooring underlayment and topping products, including the following:

1. LEVELROCK[®] QUIKTOP[™] Floor Underlayment:
 - a. Material: Gypsum Cement.
 - b. Minimum Compressive Strength (ASTM C472): 5000 psi (34.5MPa).
 - c. Nominal Average Density: 130 pounds per cubic foot
2. Approved coatings manufactured by Valspar Flooring Division Sika Corp. (sec 9).

2.03 ACCESSORIES

1. LEVELROCK[®] Brand Concrete Primer
 - a. Material Standard: Comply with specifications outlined in manufacturer's applicator manual.
2. Mix Water:
 - a. Material Standard: Potable, free from impurities and from domestic source.

2.04 REPAIR

1. DUROCK[™] Floor Patch
 - a. High polymer-modified blend of engineered cements

PART 3 - EXECUTION

3.01 EXAMINATION

A. Site Verification of Conditions:

1. Subfloor shall be structurally sound. Contractor shall clean subfloor to remove mud, oil, grease, and other contaminating factors before arrival of the licensed applicator.
2. Verify concrete has been properly cured for at least 28 days and is dry. Perform anhydrous calcium chloride test, ASTM F1869. Proceed with installation only after substrates do not exceed a maximum moisture-vapor-emission rate of 3 lb of water/ per 1000 sq. ft. (1.36 kg of water/100 sq. m) in 24 hours prior to underlayment installation.
 - a. If concrete contains greater than 3 lb of water / per 1000 sq. ft. the application of FastTrack Primer is required. Fast Track Primer is an approved concrete sealer manufactured by Sika Corp.
3. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 REQUIREMENTS

A. Leak Prevention:

1. Fill cracks and voids in subfloor where leakage of slurry could occur using compressed building insulation, a suitable quick-setting patch material or caulk.

- B. Priming subfloor:
 - 1. Prime concrete subfloor using LEVELROCK® Brand Concrete Primer according to manufacturer's recommendations as outlined in submittal sheet.
 - 2. Install in accordance with reference standards and manufacturer's instructions and as required to comply with seismic requirements.
 - 3. Application shall not begin until the building is enclosed, including roof, windows, and doors.

3.03 GENERAL INSTALLATION REQUIREMENTS

- A. Mixing Proportions
 - 1. Underlayment mix shall be tested for slump using a 2 inch (i.d.)x1 inch cylinder resulting a patty size of 7 -8". Allow 60 seconds to elapse before measuring patty size.
- B. Application
 - 1. Place floor topping not to exceed 1" maximum thickness. Immediately spread and screed product to a smooth surface. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue to through underlayment.
- B. Final Floor Covering
 - 1. Floor must be dry prior to installation of finished floor or application of floor coatings. At a 1" thickness, LEVELROCK® QuikTop will dry within 15 hours. For thicknesses greater than 1", consult manufacturer.
- C. Field Quality Control
 - 1. Underlayment mix shall be tested for a slump using a 2" (i.d.) x 1" cylinder resulting in a patty size of 7 -8".
 - 2. At least one set of three (3) molded cube samples in a brass form shall be taken for every 10,000 sq. ft. Cubes shall be tested in accordance with ASTM C472.

END OF SECTION