

COMBIMIX

Low Prep Fiber RS™

COMBIMIX Low Prep Fiber RS™ is a specialty fiberglass reinforced floor leveling underlayment is a premium quality, rapid drying, Calcium Alumina cement-based, pourable or pumpable floor leveling product. It is designed for use over concrete based substrates, concrete plank, wood, ceramic tile, metal (Lead, steel, etc.), VCT, VAT, vinyl, quarry tile, resinous coatings, terrazzo and radiant heated floors. COMBIMIX Low Prep Fiber RS™ reinforced floor leveling underlayment has an unique formulation that contains special fibers which provide added reinforcement. Finished floor material may be installed 6 hours after application depending on thickness, drying conditions and type of flooring material.



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EN 13813

Preparation of substrate

The substrate shall be free from dust, oil or any contaminants which may contribute to decreased bond. A tensile bond test should be taken in order to determine surface bond strength on the substrate. If a tensile bond test is not performed or fails to meet the minimum of 72 psi (0.5 Mpa), mechanical removal of weak surfaces must be completed to clean the surface down to a sound and solid substrate by shot blasting, scarifying or similar method. Remove any loose particles and then vacuum. Surface should be primed with COMBIMIX PP600™ Primer and allow to dry. The substrate temperature should be a minimum 43°F (6°C) during application and air temperature maintained between 50-77°F (10-25°C). Adequate ventilation should be provided to ensure uniform drying. Moisture content of substrate should be RH 95% or less prior to application of COMBIMIX Low Prep Fiber RS™ floor leveling underlayment. If Calcium Chloride moisture testing of the substrate is to be performed, it must be done prior to the application of COMBIMIX products as a false high reading will occur due to the tests being inaccurate over leveling compounds. Relative Humidity testing may occur after the installation of Combimix products.

Mixing

MANUAL MIXING: COMBIMIX Low Prep Fiber RS™ should be mixed with 4.2 to 4.5 quarts (4 to 4.2 L) of water per 44 lb. bag. Do not over water. For manual application, add product to water and mix for 2-3 minutes with a heavy duty drill (650 minimum rpm) to obtain a lump-free mix.

PUMP MIXING: COMBIMIX Low Prep Fiber RS™ can also be used in most pump equipment. Start pump at a minimum of 125 gallons of water per hour and adjust as necessary to yield a self leveling consistency. Please note, the production capacity and speed of the pump will dictate the gallons of water per hour ratio. A slump test should always be performed to ensure that mix is homogenized and free from separation.

Application

Pour blended material onto substrate at a thickness of between 1/8" to 2" (12 to 50mm) depending on type of substrate. (Wood and metal require thicker minimum depths, see bullet points for more details).. Perform slump test and adjust water accordingly until ideal patty size of 11-12 inches is obtained. COMBIMIX Low Prep Fiber RS™ should be mixed until homogeneous, approximately 3 minutes.

Performance characteristics

- ✓ Pour depths of 1/8" to 2" over most substrates (Except wood). 3/8" to 2" over residential wood substrates. 1/2" to 2" over commercial wood substrates. 1/4" minimum over metal substrates.
- ✓ Rapid drying.
- ✓ 80% less shrinkage (tensile pull) than traditional Portland cement leveling compounds.
- ✓ Walkable in 1 to 2 hours.
- ✓ Standard finished floor goods (VCT, carpet, vinyl) can be applied as soon as 6 hours, depending on thickness and climate conditions.
- ✓ Ceramic tile can be installed in less than 2 to 3 hours.
- ✓ Glue-down hardwood flooring (when using Urethane adhesives), epoxy and urethane coatings, or specialty adhesives may be installed in 24 to 36 hours.
- ✓ May be used as a finished wear surface with the application of a topical sealer (acrylic, urethane, polyurethane, Polyurea or epoxy only).
- ✓ No need to use galvanized plaster lath mesh for applications over wood substrates.
- ✓ May be used as an alternative to backer board under ceramic tile.
- ✓ Acts as an alkalinity barrier when applied as directed.
- ✓ Water damage stable.
- ✓ May be installed directly over most sound reduction mats (contact technical department for limitations).
- ✓ Coverage: approximately 24 sq. ft. per 44 lb. bag at 1/4" thickness.
- ✓ For use as underlayment where fast turn-around time is desired.
- ✓ Can be applied directly over wet concrete (RH 95% or less per ASTM F2170) without risk of deterioration of adhesives and subsequent bond loss of glued-down goods*.
- ✓ Indoor air quality safe.
- ✓ Protein free – will not contribute to or harbor the growth of mold, mildew or bacteria.

* Please note all flooring materials have different permeability rates of moisture. Please consult Combimix prior to installing products in moisture condition out of flooring manufacturer's specifications. Combimix will make specific recommendations based on flooring type, adhesives used and environmental conditions.

Immediately pour and smooth the mixed material while continuously pouring ribbons. Material can be walked on after 1-2 hours.

Flooring installation

COMBIMIX Low Prep Fiber RS™ should be walkable in 1 to 2 hours. Ceramic tile and natural stone can be installed in 2 to 3 hours after application. Floor coverings such as carpet, vinyl sheet goods, vinyl tile, VCT, homogenous PVC, rubber and engineered wood plank can be installed 6 hours after application, depending on thickness, drying conditions and type of finished floor. Specialty adhesives (i.e. Moisture-cured Urethanes and epoxies) and moisture sensitive floor covering can be installed in 18 to 24 hours depending on climate conditions. Due to the the unique chemistry of COMBIMIX floor leveling products, finished floor goods can be applied rapidly without risk of adhesive bond failure. As a general rule, permeable materials such as carpeting may be adhesively or mechanically applied to COMBIMIX floor leveling underlayments when RH level of substrate (i.e. concrete slab, etc) is 95% or below. Sample surface should be installed as a field test, to be representative of the entire surface and tested for intended use. Always refer to finished floor manufacturers recommendations regarding installation instructions, allowable moisture restrictions and other general and specific guidelines.

Limitations

For indoor applications only.

Packaging

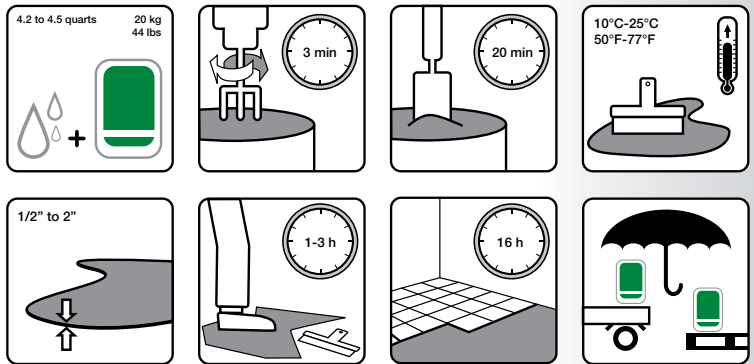
COMBIMIX Low Prep Fiber RS™ is available in 44 lb. vinyl-lined paper bags.

Storage

Product should be stored in dry conditions and in original packaging. Use within 12 months of date of manufacture.

Technical data

Tensile Bond Strength	> 435 psi
Flexural Strength	1160 psi (ASTM C-348)
Compressive Strength (28 days)	6600 psi (ASTM C-109 modified)
Shrinkage	0.01 - 0.03% (ASTM D-4060)
pH (wet-state)	11
Working time	15-20 minutes
Ideal slump range	11-12 inches
Emissions (ammonia development)	0.7 mg/m ³
Installed weight per ft ² @1/4" thickness	1.81 lbs



This product information sheet contains general instructions. Use of the product occurs under many varied conditions and prerequisites. Combimix is not responsible for storage, use in construction, working or implementation, concurrent effects with other products, use limited by local conditions, or other external factors. Combimix is also not responsible in cases where the above information is incorrectly interpreted or departed from by the user.

WARNING: Dust may cause skin, eye, nose, throat, or respiratory irritation. Avoid dust inhalation and exposure to dust. If dusty, wear a NIOSH/MSHA-approved dust respirator. Use proper ventilation to reduce dust exposure. Cement is strongly alkaline and can be corrosive to eyes, skin and respiratory tract. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes and get medical attention. Do not ingest. If ingested and any discomfort occurs, call physician.



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