



## SYSTEM TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

Flowstone™ is a complete proprietary luxury decorative flooring assembly that delivers the appearance of high-end polished concrete or natural stone at a fraction of the cost and installation time. The system is engineered as an integrated finished floor, not a collection of separate materials. It provides exceptional durability, seamless aesthetics, low maintenance, and superior stain/chemical resistance. For use over existing concrete, gypsum concrete, or approved wood subfloors with magnesium cement board underlayment.

### SUBSTRATE REQUIREMENTS

#### Approved Substrates:

- Concrete (properly prepared)
- Magnesium Cement Board underlayment systems
- Gypsum concrete (with proper surface preparation)

#### Substrate Preparation:

All substrates must be structurally sound, clean, and free of contaminants. Surface profiling is required to ensure proper mechanical bonding. Substrate moisture levels must be within manufacturer specifications prior to installation.

### LIMITATIONS & AMBIENT CONDITIONS

- Do not install if substrate or ambient temperature is below 40°F (4°C) or above 100°F (38°C).
- Maintain 40–100°F for 48 hours before, during, and 48 hours after installation.
- Do not apply if rain or freezing temperatures are expected within 24 hours.
- Not for exterior use or areas of constant water submersion.
- Minimum concrete age: 28 days. Substrate must be structurally sound and free of curing compounds, sealers, or contaminants.

### TYPICAL INSTALLATION TIMELINE

*Standard apartment unit (800–1,500 sq ft)*

#### DAY 1

Surface preparation  
and Crust application

#### DAY 2

Crust finish and  
Color application

#### DAY 3

Clear application and  
final inspection

Light foot traffic: 24 hours after final sealer | Full occupancy: 72 hours after final sealer  
(Note: Lower temperatures and higher humidity will extend cure times significantly.)

## INSTALLATION BY SUBSTRATE TYPE

### A. PREPARED CONCRETE OR GYPSUM CONCRETE SUBSTRATE (Most Common)

#### Surface Preparation

Mechanically grind entire floor (including perimeters and corners) with HEPA-filtered equipment to achieve CSP 2–3 profile. Remove all dust, oils, and contaminants. Floor must be clean, dry, and structurally sound.

#### Crust Application

Apply proprietary Flowstone Crust with magic trowel in one continuous operation. Lightly mist substrate with water immediately prior to application (no puddling) to extend working time.

#### Color Development

After overnight cure, lightly abrade imperfections. Apply Flowstone Color reactive stain via fine mist in multiple passes until desired depth is achieved.

#### Clear Protection

Apply high-performance Flowstone Clear in one pass using shed-resistant roller. Back-roll once for uniform finish.

### B. WOOD SUBFLOOR OR PLYWOOD (with Magnesium Cement Board Underlayment)

#### Underlayment Installation

Install ½" magnesium cement board (rough side UP) minimum per manufacturer guidelines using corrosion-resistant screws on 6" centers at seams and field as required to eliminate movement. All panels must be fully supported and squeak-free.

#### Surface Preparation

Grind entire surface including seams with HEPA equipment and 50–60 grit hybrids until perfectly flat and clean. Vacuum thoroughly, including all walls and edges.

#### Seam Reinforcement

Apply self-adhesive fiberglass mesh tape centered over all panel joints.

#### Crust (Base) Application

Embed mesh and level floor with proprietary Flowstone Crust using magic trowel. Feather edges tight to walls and obstructions.

#### Crust (Final Body)

After overnight cure, re-grind floor flat. Apply second pass of Flowstone Crust with magic trowel, alternating directions for signature artisanal texture.

#### Color & Clear

Same as Concrete/Gypsum steps 3 and 4 above.

## PROTECTION & CLEANUP

Protect adjacent surfaces with tape and plastic throughout installation. After Clear has cured overnight, remove installation protection and perform final cleanup. Immediately cover the entire finished Flowstone floor with heavy-duty breathable surface protection (such as RamBoard, masonite, or reinforced kraft paper) before allowing appliance delivery, cabinet installation, or any other trades on the floor. This protection must remain in place until all construction is complete to prevent scratches, dents, and gouges. Minor touch-ups may be performed within 24 hours of clear application without additional preparation.

## MAINTENANCE REQUIREMENTS

#### Routine Cleaning:

Sweep or vacuum regularly to remove loose debris. Damp mop with pH-neutral cleaner as needed. Avoid harsh chemicals, abrasive cleaners, or acidic solutions.

#### Long-Term Care:

FlowStone systems require no waxing, stripping, or refinishing. The seamless surface eliminates grout lines and gaps where dirt and bacteria can accumulate. Standard turnover cleaning is all that's required between tenants.

## WARRANTY INFORMATION

FlowStone Luxury Flooring Systems are backed by comprehensive warranties when installed by certified applicators. Warranty terms vary based on specific system configuration and application. Contact FlowStone for complete warranty details and certification requirements.

## TECHNICAL SUPPORT

Available exclusively to certified installers. Contact Flowstone Technical Department for project-specific recommendations, mock-ups, or troubleshooting.