

## DESCRIPTION

Treadstone<sup>®</sup> FR25's proprietary formulation brings a new innovation to fire-resistive cementitious underlayments. FR25 maintains the desired fire-resistive, non-shrinking, fast cure properties associated with gypsum underlayments, while adding the long desired cementitious properties of high flow, high strength, and abrasion resistance thus providing a new innovative solution elevating the fire-resistive multifamily construction industry.



Treadstone<sup>®</sup> FR25 is approved for use over concrete, precast, wood, and Treadstone<sup>®</sup> Sound Attenuating Mats (thickness limitations apply). FR25 is mixed onsite with locally sourced sand and water, providing a monolithic, smooth, lightweight underlayment ready to receive a wide variety of floor coverings.

- Variety of Mix Designs yielding compressive strengths ranging from 2000 to 3200 psi
- Recommended thickness of 3/8" to 3" in a single pour, contact Formulated Materials for greater depth recommendations.
- Mixed onsite with locally sourced aggregates reducing carbon footprint
- Fast Setting, light trade traffic 1 hour, normal trade traffic 24 hrs.
- Dense, smooth surface meeting the toughest of floor covering requirements
- At 3/4" thick, weighs 7.2 lbs per sq. ft.
- Requires little to no surface prep, prime with recommended primer, and pour
- Provides enhanced Sound Attenuation (STC & IIC) between floors
- UL listed in over 110 designs, for specific design or data contact us at [technical@formulatedmaterials.com](mailto:technical@formulatedmaterials.com).
- Installed by a technically trained Network of Licensed Dealers

Treadstone<sup>®</sup> FR25 is recommended and approved in;

- Multi-Family Construction
  - Apartments
  - Hotels
  - Condominiums
- Residential and Single Family
- Commercial Office Space
- Renovation of old wood frame or concrete structures

## TECHNICAL DATA

### PHYSICAL PROPERTIES

<b>Color</b>	Grey
<b>Physical State</b>	Powder
<b>Flow</b>	High Flow, Self Leveling Properties
<b>Water Per Bag</b>	4.5 to 6.5 US Gal. Per 80lb Bag
<b>Sand Per bag</b>	1.4 to 2.1 cu. ft. of Washed Mason or Concrete Sand meeting Formulated Materials minimum gradation criteria
<b>Strength</b>	ASTM C472M - 2000 to 3200 psi
<b>Dry Density</b>	110 to 120 lbs. per cu. ft.
<b>Recommended Depths</b>	3/8" to 3" in a single pour
<b>Surface Burning Characteristics</b>	ASTM E84 - Flame Spread: 0, Fuel Contribution: 0, Smoke Density: 0
<b>Fire Resistive Assemblies</b>	Refer to UL Fire Resistive Directory, listed in over 90 designs

## PACKAGING

80lb Bags; 49 bags per pallet  
3000lb Supersacks

## INSTALLATION

### SURFACE PREPARATION

Clean, remove all foreign matter from surface. Surface must be dry. Use Treadstone® recommended primer prior to pour. All substrate penetrations must be sealed or blocked off prior to pour. **With new dust regulations it is important not to use oil based floor sweeps, as proper adhesion of the underlayment to the subfloor or finished floor covering to the underlayment will be unachievable.**

If moisture vapor conditions exist, test to ensure proper MVER limits, not to exceed 5 lbs. per sq. ft. for 24 hours per ASTM F-1869.

### APPLICATION

Treadstone™ FR25 is to be installed by a trained, licensed Treadstone® Dealer. The building must be closed in with a minimum of 50 degrees F, maintained for a period of 5-7 days during and after the installation of Treadstone FR25. Adequate ventilation is required to ensure proper curing, for more information regarding drying conditions contact Formulated Materials or refer to our Recommended Jobsite Conditions Document. Once FR25 is installed and fully cured, use an approved Treadstone® Surface Sealer prior to the installation of all glue down or thin set floor coverings. Floor Covering Manufacturer's recommendation supersedes all others.

### STORAGE

Store in dry conditions.

## LIMITATIONS

- No Single Installation (or lift) of Treadstone® FR25 should exceed 3" in depth, contact Formulated Materials for designs requiring greater depths.
- A moisture vapor barrier is required for installations above a crawl space, or where moisture vapor conditions exist, such as slab on grade.
- After installation of FR25, and before construction resumes, provide adequate protection from heavy wheeled or concrete loads.
- Do not install on or below grade level, except when well drained properly prepped applications occur. (Contact Formulated Materials for specific requirements).
- Minimum L/360 Deflection Criteria for framed floor ceiling assemblies is required.
- Forced drying is not allowed for at least 24 hours after application.
- Not intended as a wear surface or finished floor, FR25 must be covered with a properly installed floor covering.
- Not intended for exterior applications or any situation where long term exposure to water is possible.
- FR25 is one component of the fire and sound rated floor-ceiling assembly, proper installation practices have to be incorporated with each component to meet performance criteria.
- It is the installers responsibility to ensure the most recent revision of this technical data sheet is referenced at the time of application.

## RELATED PRODUCTS

- Treadstone® Primer/Sealer
- Treadstone® Sound Attenuating Systems

## PROJECT SPECIFICATIONS

- Project Name \_\_\_\_\_
- Pour Depth \_\_\_\_\_"
- Compressive Strength \_\_\_\_\_ psi

## UL DESIGNS

G230	G516	G524	G561	G577	G578	G579	G580	G581	G582	G587
G592	H502	J917	J919	J920	J924	J927	J931	J957	J958	J991
J994	L006	L201	L202	L206	L209	L210	L211	L212	L501	L502
L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513
L514	L515	L516	L517	L518	L519	L520	L522	L523	L524	L525
L526	L527	L528	L529	L530	L532	L533	L534	L535	L536	L537
L538	L539	L540	L541	L542	L543	L545	L546	L549	L550	L551
L552	L556	L557	L558	L560	L562	L563	L565	L570	L573	L574
L576	L577	L579	L581	L583	L585	L587	L588	L589	L590	L592
L593	M500	M502	M503	M504	M506	M508	M511	M512	M513	M515
M517	M519	M530	M531	M535	M536					

