



Durable

Famed Roman structures, such as the Pantheon, Colosseum and aqueducts, are still standing today. One secret to the long-term durability of these structures is that the Roman builders turned to volcanic ash to harness the power of pozzolans. Like Roman concrete, fly ash pozzolans in the chemically-balanced formulas of Magna WallTM stuccos react to free lime, forming additional cement binder. This leads to greater durability of the Magna WallTM stuccos.



product OVERVIEW

Green

Magna Wall™ stuccos provide the
Pozzolanic Advantage, and are also the
greenest stuccos on the market. The use of
fly ash – a recovered resource – reduces
depletion of natural resources and
conserves landfill space. It also reduces
the energy-intensive manufacturing of other
concrete ingredients resulting in reduced
green house gas emissions.

Magna Wall™ FRS, when used as a one-coat stucco cuts the time required for a three-coat stucco process by more than 50 percent, while its shear values, fire ratings, and life expectancy are comparable to conventional three-coat stucco.

Basic Use:

Magna Wall™ FRS is intended for use as a one-coat stucco. It may be trowel or gun applied.

Composition and Materials:

A blend of Portland cement, high performance pozzolan, hydrated lime, fibers, and additives.

Bag Weight: 80 lb. (36.36kg.)

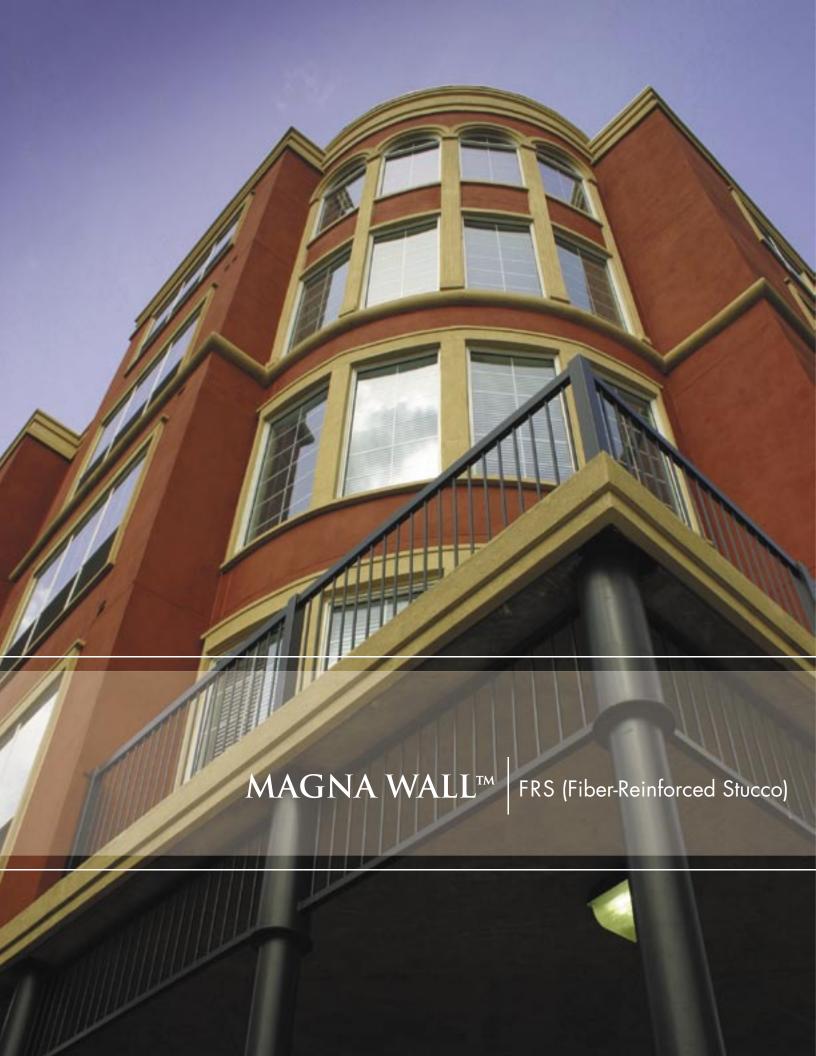
Coverage: 65 sq. ft. at 3/8" thick application rate

Color: Gray

Storage: Store in dry area off the ground.

Shelf life: Approximately 6 months.





product INSTRUCTIONS

The Pozzolanic Advantage

As the Romans learned, pozzolans like those used in Magna Wall™ stuccos bring many advantages including:

Increased Workability
Growth in Strength
Water Resistance
Increased Flexural Strength
Reduced Efflorescence

A. Mixing Instructions:

NOTE: THIS PRODUCT USES LESS WATER

- Magna Wall™ FRS is formulated to require only 4 to 6 gallons of water, depending on the amount of sand used and the moisture content of the sand.
- Use 2.5 to 3.0 cubic feet of loose, damp sand per bag of Magna Wall™ FRS. This is:
 19 to 22.5 gallons,

3.5 to 4.0 5-gallon buckets, * or 15 to 18 No. 2 shovelsful. **

- 3. For consistent results, use a mechanical mixer, and measure the sand and the water. Mixing 4 minutes will improve the workability and water retention for hand application. Over-mixing will entrain excess air, which will lower the compressive strength.
- * Loose fill and screed off. Most 5-gallon plastic buckets level full hold 5.5 gallons
- ** Shovel capacity varies with moisture of sand and the operator. We recommend measuring with a 5-gallon bucket.

B. Application and Curing:

- Magna Wall™ FRS may be gun applied, or trowel applied.
- 2. Apply at a minimum of 3/8-inch thick on metal lath.
- All cementitious stuccos require moisture to cure. Moist cure for 48 hours with regular fogging spray after stucco has taken its initial set (2 – 4 hours).
- 4. A rapid-cure primer must be applied if the Magna Wall™ FRS has not cured a minimum of 28 days or pH has not dropped to below 9.5.

Warning - Mixing and Application

- Do not add air-entraining agents, mortar fat, accelerators, or waterproofing agents, as they may interfere with the chemical integrity of this product.
- Do not apply at temperatures below 35°F, or when freezing temperatures are anticipated within 24 hours.



product DATA

Applicable Standards: ASTM C1328 for Type S* ● Magna Wall[™] FRS Stucco is sold under NER Legacy Report 459 and ICBO ER 4776.

*ASTM does not have a standard for one-coat stucco. The standard listed is for plastic cement.

A. Fineness:

This is determined by screening the unmixed mortar through a No. 325 mesh sieve.

B. Autoclave Expansion:

This test is used to predict the long-term hydration of unhydrated particles. This in turn predicts long term failure.

C. Time of Setting:

Initial time of set must be long enough to allow adequate time to apply and trowel the product. The final set time must be rapid enough not to interfere with production.

D. Compressive Strength:

Magna Wall™ FRS exceeds ASTM standards and continues to gain strength over time.

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	ASTM C1328	24% Maximum
	Magna Wall™ FRS	16%
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	ASTM C1328	1% Maximum
	Magna Wall™ FRS	0.04%

	Initial Set, Minimum	Final Set, Maximum
ASTM C1328	Not Less Than 90 Min. (1.5 Hours)	Not More Than 24 Hours
Magna Wall™ FRS	150 Minutes (2.5 Hours)	270 Minutes (4.5 Hours)

	3 days	7 days	28 days	90 days
ASTM C1328 Minimum	N/A	1300 psi	2100 psi	N/A
Magna Wall™ FRS	1250 psi	1600 psi	2600 psi	3200 psi

E. Air Content:

Air content affects workability, yield, and strength. Plasterers want a high air content to increase workability and yield. However, the higher the air content, the lower the compressive strength. ASTM C1328 sets the standard for air content in plastic stuccos.

Requirement ASTM C1328 Minimum/Maximum Magna Wall™ FRS 12/16 %

F. Water Retention:

G. Water Resistance:

Magna Wall $^{\text{TM}}$ FRS is formulated to resist water penetration in its finished state. No stucco is waterproof.

CAUTIONS and LIMITATIONS

A. See package for handling precautions. B. MSDS should be viewed in order to understand all warnings.

ASTM C1328 Minimum	70%
Maana Wall™ FRS	32%







Premium Stuccos, Mortars, & Masonry Cement



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