GiGACRETE™

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BALLISTICRETE

BALLISTICRETE™ protective coating is an inorganic mixture of mineral binders, high quality fillers, and fibers with exceptional impact resistance and is based on PlasterMax technologies. The superior ceramic like strength and hardness qualities are designed to flatten a projectile rapidly upon impact, thereby creating greater resistance to penetration. It is environmentally sustainable while providing strength, durability, and economy. It forms a strong bond with many substrate materials such as foam, CMU, concrete, cement board, brick and stucco with tensile bond strength exceeding the tensile strength of the substrate in many cases. It can be applied as a single coat from 3/8" or incrementally layered whilst still in a gel state up to 2" thick depending on application. Heavy duty non combustible glass fiber mesh is embedded within the material during application. A paint finish is recommended after complete curing has taken place in 5 days. BallistiCrete is a natural limestone color and is pre-blended, mix with conventional plaster mixing equipment. It can be pumped and sprayed or hawk and trowelled. BallistiCrete comes in a 2 part package and both are mixed together onsite. Working time is approximately 1 hour at 60-70F.

ENVIRONMENTAL CONSCIOUSNESS

BallistiCrete™ is designed to be environmentally responsible and sustainable. It emits no pollutants even in contact with fire, no smoke, no flame and no VOC's. The Product meets emission level requirements of GREENGUARD product quality testing. BallistiCrete is at minimum 98% silica free, and does not support the growth of mold and mildew.

PERFORMANCE BENEFITS

- Provides a hard, durable coating over many wall surfaces, over 8500 PSI compressive strength (Per ASTM C109)
- Applies directly over EPS foam, existing stucco, cement board, CMU blocks or wood substrates.
- Noncombustible building material (Per ASTM E136)
- Zero flame spread, and zero smoke developed indices (Per ASTM E84)
- Resistant to mold and mildew growth (Per ASTM G21)
- When applied over EPS foam, BallistiCrete™ meets ICC building code required fire protection requirements (Per UBC 26-3; NFPA 286; and IBC Section 803.2.1, Corner Room Fire Tests).
- Meets all the emission level requirements of the GREENGUARD Product Quality
- Can be applied to create both smooth and textured finishes; and, it can be painted.
- Pre-formulated mix, needs only mixing on site
- Mix and apply using pumps/sprayers or hawk and trowel

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COVERAGE

COVERAGE	Packaging	Applied Thickness	Coverage	Weight (lbs/sq.ft)
BallistiCrete™	75 lb	5/8"	12.00 SQFT/bag	6
BallistiCrete™	75 lb	3/4"	9.25 SQFT/bag	7
BallistiCrete™	75 lb	7/8"	9.00 SQFT/bag	8
BallistiCrete™	75 lb	1"	7.50 SQFT/bag	10.0
BallistiCrete™	75 lb	1.5"	5.0 SQFT/bag	15
BallistiCrete™	75 lb	2"	3.75 SQFT/bag	20

Product yields may also vary due to water content and substrate conditions.

Technical Data

TEST	STANDARD METHOD	RESULTS
Compressive Strength (psi)	ASTM C-109	8000 @ 14 days
Flexural Strength (psi) MOR	ASTM C-293 modified	1100 @ 14 days
Cold Water Absorption (% by wt)		7 days 9 %
Shrinkage (% by length)	ASTM C-157	Air Cure -7 days 0.002
Freeze-Thaw	ICBO AC 11	> 10 cycles No cracking, crazing, erosion
Surface Burning	ASTM E-84	Flame Spread: Zero Smoke Developed: Zero
Combustibility	ASTM E-136	Non-Combustible

PACKAGING

BALLISTICRETE™ is available in 75-lb moisture-resistant sealed plastic bags.

SHELF LIFE

When properly store indoors in original sealed packaging, **BALLISTICRETE ™** has a shelf life of one year from the date of manufacture.

APPLICATION

BALLISTICRETE™ can be applied by pump and spray or hawk and trowel to the desired thickness in a single coat application. **BALLISTICRETE™** installation can be completed in one day, using a single or scratch and brown coat method of application.

LIMITATIONS

Mixing water must be potable and not to exceed 75 F.

May be remixed or agitated during application but may not be re-tempered with water after initial mixing has taken place

Should be applied under ambient conditions of > 35% relative humidity and 55-85 F temperature

Substrate temperature should not exceed 85 F

BUILD STRONG. BUILD FORWARD.™

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