



Heat Resistant Concrete

For Repair or New Construction!

Protect against thermal events and cycling of intense heat to 1800°F!



GSA P/N: C1100B 2250 Lb. SuperSak (Cement Only)

Firerok™ is a cementitious, high-early strength concrete that can be used either as a repair product or as a structural concrete. **Firerok™ can be exposed to temperatures as high as 1800°F**, depending on application and placement conditions, **within 24 to 72 hours.** **Firerok™** is available in pre-extended 54 pound plastic bags for small projects and 2,200 pound Super Sacks for large volume applications.

Recommended uses: **FireRok™** has been designed for areas which are exposed to intermittent high temperatures. This would include runway areas exposed to jet blast, HPUs, oven, and metal casting areas.

Exceptional bond strengths make **FireRok™** an ideal material to place over existing sound concrete as a protective barrier.



Go to www.ceratechinc.com for additional product information



GSA P/N: C1100 54 Lb. Bag (Includes Aggregates)

Products can also be ordered via
GSA Advantage & DOD eMail

Exclusive Federal & Military Sales Agent:



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CONTRACT NUMBER: GS-07F-0167W



U.S. General Services Administration



FEATURE

- 1** Can Be Exposed To Extreme Ambient Temperatures To 1800 F /982 C Without Strength Degradation
- 2** Rapid Strength Development
- 3** Non-shrink
- 4** Mild Modulus of Elasticity
- 5** Low Coefficient of Thermal Expansion / Contraction
- 6** Exceptional Early Bond Strengths
- 7** Exceptional Flexural Strengths
- 8** Self Priming
- 9** Self Curing
- 10** Water Clean-Up
- 11** *Pre-extended (See Packaging)

BENEFITS

- Long Term Durability
- Rapid Return to Service
- Dimensionally Stable
- Exceptional Volume Stability Over Wide Temperature Ranges Reducing Stress at Bond Interface
- Dimensionally Stable in Wide Temperature Ranges for Long Term Durability
- Durable Repairs
- Superior Load Transfer Capability
- No Bonding Agents
- No Moist Curing, Texturing or Blanketing
- No Hazardous Chemicals Required for Cleaning Tools
- Utilizes high quality aggregates for improved strengths

UNIT WEIGHT (with water, sand & aggregate)
152 lb/ft³ (2434 kg/m³)

SETTING TIME

Set Times at 72°F/22°C at 2" (5 cm) material depth
Initial set: 35 -45 minutes
Final set: 45 - 60 minutes

VOLUME YIELD

0.41ft³ (0.011m³) / 53.5 lb. Bag

PACKAGING

53.5 lb (24.3 kg) Bag (Pre-extended)
2,200 Lb. Super Sack (Binder only)

SHELF LIFE

1 year

STORAGE

Bags must be kept dry

TECHNICAL DATA

Results derived by internal CERATECH testing and represent typical results from production materials. Actual results may vary. CERATECH's materials meet and/or exceed established internal quality control standards, (available upon request) .All samples were air cured.

Property	Results 4" x 8" cylinders	Test Method
Compressive Strengths, psi (MPa)		
6 hours	2603 (18.0)	ASTM C 39
1 day - 24 hours	3861 (26.6)	ASTM C 39
7 days	6218 (42.8)	ASTM C 39
28 days	9305 (64.1)	ASTM C 39
Flexural Strength, psi (MPa)		
7 days	852 (5.9)	ASTM C 78
28 days	1007 (6.9)	ASTM C 78
Splitting Tensile Strength, psi (MPa)		
7 days	491 (3.4)	ASTM C 496
28 days	728 (5.0)	ASTM C 496
Bond Strength, psi (MPa)		
1 day - 24 hours	2271 (15.7)	ASTM C 882
7 days	3297 (22.7)	ASTM C 882
Rapid Freeze Thaw Resistance (Durability Factor - Retained percentage of Dynamic Modulus)		
300 cycles	100%	ASTM C 666A
Scaling Resistance, lbs/ft² (kg/m²)		
50 cycles	0	ASTM C 672
Modulus of Elasticity, psi (GPa)		
28 days	4.9	ASTM C 469
Coefficient of Thermal Expansion, in/in/°F		
28 days	4.7	AASHTO TP 60
Length Change, % of total length		
28 days soak / 28 days dry	-0.0280/-0.0080	ASTM C



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GREEN CONSTRUCTION TECHNOLOGY!