



KEMROK™ Pre-extended, Packaged
RAPID REPAIR CONCRETE
CHEMICAL RESISTANT CONCRETE



KEMROK™ is an extremely versatile, cementitious, rapid setting, semi-leveling structural repair concrete. It is a single component powder that is water activated. **KEMROK™** has 20 - 45 minutes of working time and will reach compressive strengths of more than 2,500 psi within 4 hours from the addition of water. **KEMROK™** can be applied in ambient temperature ranges from 30 to 120 degrees Fahrenheit. **KEMROK™** finishes like traditional Portland based concrete and cleans up easily with water.

RECOMMENDED USES: **KEMROK™** has been designed for horizontal and near horizontal applications providing for *repair* of building restoration/balcony projects, loading dock ramps, parking garages, and form and pour projects.

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|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1 Rapid Strength Development | Rapid Return to Service |
| 2 Non-shrink | Dimensionally Stable |
| 3 Mild Modulus of Elasticity | Exceptional Volume Stability Over Wide Temperature Ranges Reducing Stress at Bond Interface |
| 4 Low Coefficient of Thermal Expansion / Contraction | Dimensionally Stable in Wide Temperature Ranges for Long Term Durability of Repair |
| 5 Exceptional Early Bond Strengths | Durable Repairs |
| 6 High Early Flexural Strengths | Exceptional Load Transfer |
| 7 Self Priming | No Bonding Agents |
| 8 Self Curing | No Moist Curing, Tenting or Blanketing |
| 9 Water Clean-Up | No Hazardous Chemicals Required for Cleaning Tools |
| 10 Wide Temperature Applications | Can Be Applied in Extreme Temperatures Without Effecting Long Term Performance Characteristics |
| 11 Pre-extended | Utilizes high quality aggregates for improved strengths |

- Not recommended for temperatures below **30°F** / -1°C and above **120°F** / 49°C.
- Will not bond to polymers.
- Pumping not recommended.

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: 30 - 35 minutes
Final set: 45 - 60 minutes

VOLUME YIELD (#8 - 3/8" fractured stone- included)
Concrete (binder + sand + coarse agg. + H₂O) =
0.40ft³ (.011m³)

PACKAGING
53.5lb (24.3 kg) Bag

SHELF LIFE
1 year

STORAGE
Bags must be kept dry

TECHNICAL DATA

2.11.09

Results provided by licensed engineering test laboratory and represent typical results from production materials. Actual results may vary from third party testing results; however, CERATECH's materials meet and/or exceed established internal quality control standards, (available upon request) . All samples were air cured.

Property	Results	Test Method
Compressive Strengths, psi (MPa)		
4 hours	3010 (20.8)	ASTM C 39
1 day - 24 hours	4905 (33.8)	ASTM C 39
7 days	7415 (51.1)	ASTM C 39
28 days	9730 (67.1)	ASTM C 39
Flexural Strength, psi (MPa)		
1 day - 24 hours	490 (3.4)	ASTM C 78
7 days	1030 (7.1)	ASTM C 78
28 days	1105 (7.6)	ASTM C 78
Splitting Tensile Strength, psi (MPa)		
28 days	590 (4.0)	ASTM C 496
Bond Strength, psi (MPa)		
1 day - 24 hours	3575 (24.6)	ASTM C 882
7 days	4365 (30.1)	ASTM C 882
28 days	6310 (43.5)	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, msi (GPa)		
28 days	4.7 (31.8)	ASTM C 469
Coefficient of Thermal Expansion, in/in/°F		
28 days	1.37	AASHTO TP 60
Length Change, % of total length		
28 days soak / 28 days dry	-0.052 / -0.057	ASTM C 157



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