

PRODUCT
COROTEK FS

**HIGH TEMPERATURE, CORROSION RESISTANT
CASTABLE OR GUN MIX**

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2000°F
ASTM C-401	Class C
Lbs. Required Dry Mix Per Cu. Ft.	118 lbs.
% Water Required for Casting	8.0% (Approx.)
Bulk Density After Drying at 230°F	120 lbs./cu.ft.
Cold Crushing Strength After Firing at 2000°F	6000 psi
Modulus of Rupture After Drying at 230°F	500 psi - 1000 psi
Modulus of Rupture After Firing to 2000°F	1600 psi

CHEMICAL ANALYSIS

Silica	[SiO ₂]	92.5%
Alumina	[Al ₂ O ₃]	2.3%
Sodium	[Na ₂ O]	3.1%
Trace		2.1%

ACID RESISTANCE

COROTEK FS has exhibited excellent acid resistance in laboratory tests after boiling in 38% HCL and in 78% H₂SO₄ for 24 hours.

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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The working and setting times of COROTEK FS are influenced by temperature. During mixing, application, and setting, the material substrate and air temperatures should be between 50°F (10°C) and 90°F (32°C). All monolithic applications should be covered for 24 hours after placement.

TEMPERATURE	WORKING TIME	INITIAL SET	FINAL SET
50 - 60°F	60 minutes	6 hours	72 hours
60 - 70°F	45 minutes	4 hours	36 hours
70 - 80°F	30 - 45 minutes	3 hours	24 hours
80 - 90°F	20 minutes	2 hours	24 hours
