

Foundry Service & Supplies, Inc.

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

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Fused Silica Cement is a water based, inorganic cement for patching, joining, coating or repairing fused silica products, especially Fused Silica Foam-50 and slip cast fused silica from Foundry Service. Its composition is virtually 100% silica. Despite its high solids content, for low drying shrinkage, its pourable consistency permits easy application and usage by a variety of methods.

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Composition,

SiO ₂	99
Al ₂ O ₃	0.3
Other Inorganic	Trace

Properties, RT

Appearance	White, creamy, paint-like
Wet Density, lb/gan	14.5
Dry Density, pcf	95
Solids Content, %	85
Normal Shelf Life (see below)	1 year

Normal Use Temperature, °F 2000

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Due to its high solids content, Hwugf 'UkneC Cement must be stirred before each use. Ideally, containers of the cement should be rolled for several hours or more before use to suspend the fused silica solids. Cement not agitated for long periods of time may become difficult to re-constitute.

Surfaces to be coated or repaired should be clean and free of loose grit, oil, or other contaminants. Once applied, Fwugf 'UkneC Cement hardens quickly as it dries. Drying time can be reduced with elevated temperature, forced air drying. The speed of drying may affect bond strength, particularly with thicker applications of the cement. Normal application thickness is less than an eighth of an inch, but thicker cross-sections are possible.

These properties represent typical results obtained under controlled conditions and are subject to normal variations. Results are subject to change and should not be used for specification purposes. Actual use temperature limit depends on installation, construction, heating rates, and other service conditions.