FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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

Super Calstik™

High Temperature Glue

Description

Super Calstik is a modified, silicate-based glue. It sets quickly to provide a high temperature bond for porous insulating materials. Super Calstik is completely asbestos free.

Applications

Super Calstik is used for bonding and sealing joints in Super Firetemp® high temperature insulation and calcium silicate pipe and block insulation. It is used in grease ducts, structural steel and other fire-rated applications.

Wet Properties

Density ..... 12 lbs./gal. (1,440 kg/m³)
Solids by Weight 62%
pH 12.8
Viscosity-Brookfield ..... 7200 to 8500 cps.
Wet Coverage ..... 1/16" thick, 25 sq. ft./gallon (1.6 mm, 0.61 m²/liter)
1/32" thick, 50 sq. ft./gallon (0.8 mm, 1.23 m²/liter)

Drying Time on Calcium Silicate Insulation (ASTM C 474-67 at 77°F (25°C))

Set ..... 15 Seconds
Handle ..... 5 Minutes
Thorough Dry ..... 1½ Hours
Minimum Application Temperature for Thorough Dry .... 35°F (2°C)

Physical Properties

Melt Point ..... Decomposes @ 1088°F (587°C)
Shore "C" Hardness – 24 Hour Care ..... 65 Minimum
Resistance to Cracking (ASTM C 474-67)
0" - ⅛ Wedge ..... No Cracking
0" - ¼ Wedge ..... No Cracking
Elongation – 10 Day Cure 2%
Shrinkage – 10 Day Cure 1%
Tensile Strength ..... 3000 psi (20,685 kPa)
Adhesion to Calcium
Silicate Insulation ..... Insulation Fails Before Glue Line Joint

Chemical Resistance

Non-Aqueous Solvents ..... Excellent with Aromatic, Aliphatic and Oxygenated Solvents
Mineral Acids ..... Salt Formation and Loss of Bond Strength
Water – Cold ..... Softens Upon Lengthy Submersion
– Hot ..... Softens Upon Continuous Contact

Storage and Application Limitations

Do Not Store Below 35°F (2°C) (Wet Product) ..... Freezes
Do Not Store Above 95°F (35°C) (Wet Product) ..... Bodies Up
Freeze-Thaw Stability (Wet Product) ..... No Cycles
Maximum Recommended Continuous
Service Temperature (Dry Product) ..... 1000°F (538°C)
Fire Resistance (Dry Product) ..... Passes 1200°F (649°C) Oven Without Charring
Effect on Metal (Dry Product) ..... Non-Corrosive

Removal from Surfaces

Immediately Use Hot Water and Soap **Before** It Dries