

## TECHNICAL DATA SHEET

### PRODUCT

### HIGH TEMPERATURE ADHESIVE/SEALANT

### DESCRIPTION

Saxon High Temperature Adhesive and sealant is a silicate based material for use where a high temperature resistant seal or adhesive bond is required.

The product dries to a hard, cement-like material with good adhesion to many surfaces. It has a continuous operating temperature up to a maximum of 1250°C. After subjected to high temperature above 800°C the product sets to a solid ceramic mass which is resistant to thermal shock.

Suitable for use where resistance to spread of flame is required.

It is supplied as a ready to use, easily extrudable paste in a 310ml cartridge and a viscous liquid in buckets and bulk containers.

### APPLICATIONS

For bonding and sealing between a wide range of materials such as metal, glass, ceramic, concrete, stone, clay and silicate(glass) fibre.

Provides a high temperature, rigid seal around pipework and flues in fireplaces, boilers, solid fuel burners and central heating systems.

General fire protection applications where a rigid seal is required.

### LIMITATIONS

Saxon High Temperature Adhesive and Sealant will not bond plastics materials, particularly where flexing may occur. The dry adhesive has no water resistance until after glassifying above 800°C

### TECHNICAL DETAILS

Density:	paste - 1.75-1.85g/cm <sup>3</sup> Liquid – 1.55-1.65 g/cm <sup>3</sup>
Flash Point:	does not support combustion
pH:	13
Application Temperature Range:	5°C to 40°C
Service Temperature Range:	-20°C to 1250°C (starts to soften at 1200°C; melts at 1300°C)
Slump Resistance (Paste):	Excellent. Soft highly thixotropic paste.
Initial Drying:	Skins within 5 minutes (20°C and 65% RH)
Through drying:	Approx. 5mm/day (20°C and 65% RH)
Oxidation resistance:	Excellent
Acid Resistance:	Excellent (except for hydrofluoric acid)
Shelf Life:	12 months in unopened containers stored in cool, dry conditions.( 5°C to 30°C)
Colour:	natural (buff), black and white
Coverage:	paste – approx.. 15m for a 5mm diameter bead for a 310ml cartridge Liquid – 0.5m <sup>2</sup> /ltr for a 2mm coating



## **APPLICATION INSTRUCTIONS**

All surfaces must be clean and dry and free from dirt, dust, grease and other contamination. Light abrasion of the surfaces to be bonded will improve the adhesion.

Apply the adhesive forcing it onto the area to be sealed, to ensure good adhesion. Complete tooling within 5-10 minutes.

When bonding materials, apply a bead of adhesive to one surface and immediately combine the two parts, applying pressure to ensure good surface contact.

Application equipment should be cleaned with warm water after use.

It is necessary to fully dry the product before subjecting to temperatures above 100°C to prevent gassing and likely failure of the seal/bond. Allow to air dry for 36-48 hours, after which gentle heat can be gradually applied.

The dried product can be removed with boiling water.

## **STORAGE**

Store in cool dry conditions. ( 5°C to 30°C)

## **HEALTH AND SAFETY**

See Health & Safety data sheet before using the product. Should any of the adhesive come into contact with eyes, then flush eyes liberally with clean water and seek medical advice. If accidentally ingested, seek medical attention and show the container or label.

**KEEP AWAY FROM CHILDREN AND ANIMALS.**

### **Further Information**

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate

