

Technical Data Sheet

Date of compilation: 03/08/2021

ARC FIRE CEMENT

DESCRIPTION

Arc Fire Cement is of putty-like consistency, odourless with excellent storage life. Does not exude oil or stain most absorbent materials. Water based, Non-toxic, produced from natural mineral products. Does not contain asbestos.



KEY FEATURES:

- Ready mixed for direct use
- Excellent working characteristics
- Hardens by air drying and heat which strengthens, seals and joints
- Seals to give smoke and fume tight joints
- Strong adhesive properties at all temperatures
- Rated to 1400°C

USES

- Sealing surfaces in contact with extreme temperatures e.g. open fireplaces, room heaters, stoves, central heating system and boilers
- Sealing cracks in broken bricks in grates and stoves
- Jointing all internal flue pipes
- Repairing firebacks and chimney linings.

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	VALUE
Base technology	Sodium Silicate
Curing system	Evaporation – sets hard as it is dried and heated
Bulk Density (as placed)	approx. 2.0g/cm ³ (2000kg/m ³)
Adhesion	Good to Iron, Steel, glass, mica, concrete, firebrick
Chemical Resistance	Excellent to acid conditions. At high pH & temperature can be redissolved
Service temperature range	up to 1400°C
Staining	Nil

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APPLICATION

Properties:

Curing rate: Depending on thickness, ambient temperature and humidity. Requires gradual heating.

Shelf life: 12 months. Do not store below 5°C

Instructions:

Surface preparation: all surfaces must be clean, dry and free from frost, grease and loose materials. Ensure there is good contact with all surfaces required for bonding. Apply positive pressure and secure all components and allow the cement to set and harden. Heat can be applied to the repair immediately up to 100°C over a 4 hour period after which the temperature can be raised gradually to operating temperature (1400°C Max) Subsequent heating can be as fast as required.

Note: If any fine cracks appear fill and smooth to ensure a long lasting smoke tight finish

Limitations:

The cement is not water resistant until heated above 500°C and should not be used in conditions subjected to water erosion.

Not suitable for rendering or screeding.

PACKAGING

1kg - 12 units/box | 2kg - 6 units/box | 5kg - 1 unit

HEALTH & SAFETY

Please refer to the Material Safety Data Sheet for safety and environment information.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.