HIGH TEMPERATURE PUTTY

SKU: 43000 | Technical Data Sheet | IHeat Treat Inc.

Technical properties below are reproduced from the supplied fire-cement reference. Confirmation is required that SKU 43000 is the same formulation before these values are used as product specifications.

PRODUCT OVERVIEW

- Water-based, pliable adhesive fire cement.
- Strong adhesion at temperatures up to 1400°C; maximum continuous service temperature stated as 1400°C.
- Designed for assembly and installation of gas/multifuel heating appliances.
- Does not exude oil or stain most absorbent materials; described as odourless and non-toxic in the supplied sheet.

TYPICAL USES IN SUPPLIED REFERENCE

- High-temperature cement for installation of fireplaces and hearths.
- Rigid seals for joints on flues, stoves and other heating devices.

PRINCIPAL CHARACTERISTICS

- Suitable for bonding and thick sections.
- Available in neutral brown or black; ready to use.
- Sets into a hard, rigid ceramic mass resistant to thermal shock and ageing.

REPORTED TECHNICAL PROPERTIES

PROPERTY	REPORTED VALUE
Maximum continuous service temperature	1400°C
Melting temperature (as reported)	1400°C
Expansion	0
pH	13
Oxidation resistance	Excellent
Acid resistance	Excellent, except hydrofluoric acid

Packaging in source	300 ml cartridge; 0.5, 1 and 2 kg

APPLICATION, CURING & STORAGE

APPLICATION GUIDELINES

• Thoroughly clean and degrease surfaces to be bonded or sealed. Light surface abrasion may improve mechanical key.

• Apply fire cement as supplied; complete tooling within 5-10 minutes. Clean spills immediately.

• Apply moderate pressure to ensure full contact. Secure components and allow material to set.

• Clean application equipment with warm water immediately after use.

CURING SCHEDULE

• Water-based adhesive must fully dry and dehydrate.

• At room temperature and average humidity, the reference estimates approximately 36-48 hours; actual curing varies with temperature, humidity, substrate porosity, quantity and area.

• Gentle progressive heating may accelerate curing, but do not exceed 100°C during curing according to the source.

• Cured material may be removed using steam or boiling water; high pH can also aid removal.

STORAGE

• Protect opened containers from continuous exposure to air.

• Slightly moisten contents of partly used tubs and close the lid tightly.

• Store in original sealed packaging at 5-30°C; cartridges upright.

• Shelf life stated in source: 12 months.

HEALTH AND SAFETY

• Consult the appropriate current Safety Data Sheet before use. The reference states RoHS compliance.

• The uploaded safety pages identify alkaline material and warn of skin and eye irritation.