

ELI-COTE FR1008HT HIGH TEMPERATURE ABRASION RESISTANT MORTAR

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| PRODUCT: | Wear resistant Epoxy Compound |
| DESCRIPTION: | A two part, ambient temperature curing Epoxy Repair/Maintenance Compound containing abrasion resistant fillers |
| APPLICATION: | By spatula, trowel |
| VISCOSITY / 25°C: characteristics | Thixotropic Mortar, good handling |
| COLOUR: | Resin: White Hardener: Black Mixed Compound: Grey |
| MIXING RATIO: | By Weight or Volume: 100 Parts Resin 25 Parts Hardener |
| RECOMMENDED MIXING TIME: | 3 - 5 Minutes, use a spatula - mix on a flat surface |
| SPECIFIC GRAVITY / 25°C: | Mixed compound: 1,85 - 1,9 g/cm ³ |
| COVERAGE: application | 1 l (2 kg) per 1 m ² : 1 mm thick 3 l (6 kg): cover 3 m ² / 1 mm thick application |
| PRACTICAL WORKING TIME / 25°C: (1 kg Mass) | 10 - 15 Minutes |
| GELTIME / 25°C: (5 mm thick application) | 1½ - 1¾ Hours |
| GELTIME / 35°C: (5 mm thick application) | 20 - 30 Minutes |
| SETTING TIME / 25°C: (5 mm thick application) (3 mm thick application) | 2½ - 3 Hours 3 - 3½ Hours |
| SETTING TIME / 35°C: (5 mm thick application) | 35 - 40 Minutes |
| SETTING TIME / 5°C: (5 mm thick application) (Hardness) | ± 24 Hours Shore D 56 - 60 (product is not fully cured) |
| MINIMUM APPLICATION TEMPERATURE: | 10°C |

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HARDNESS CURED 24 HOURS:
AT 25°C: Shore D: 90 – 95

HARDNESS AT 60°C: Shore D: 80 – 81

SHORE HARDNESS AFTER:

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|-----------------|---------|---------|
| 10 min / 80°C: | Shore D | 65 – 68 |
| 1 hour / 80°C: | | 81 |
| 1 hour / 100°C: | | 77 |
| 1 hour / 120°C: | | 75 – 76 |
| 1 hour / 140°C: | | 65 – 68 |
| 1 hour / 160°C: | | 60 – 61 |

FLASHPOINT (MIXED MORTAR): > 160°C

HEAT RESISTANCE: Maximum 120°C
The product is recommended for applications up to 110°C
Post-curing will enable a higher temperature resistance.

TENSILE STRENGTH:
(Din 53455) > 20 MPa

COMPRESSIVE STRENGTH:
(Din 53454) 80 – 85 MPa

IMPACT STRENGTH:
(Din 53453) 2,5 kJ/m²

LAPSHEAR STRENGTH: 5,5 MPa
(On cleaned and roughened mild steel)

CHEMICAL RESISTANCE: Excellent against: Water, Oil, diluted Acids and Alkaline

Poor against: Esters, Ketones, Chlorinated Hydrocarbons

SURFACE PREPARATION & HANDLING: To obtain a good bond and to ensure a long service life of the Eli-Cote FR1008HT it is important to clean and roughen the application surface:

- (a) Remove any contamination, Rust, Dirt, Oil, Water from the surface.
- (b) Preheat surface (hand warm) to remove Water - apply material immediately.
- (c) Roughen surface by grinding, wire brushing or sandblasting.
- (d) Mix only the amount of material required (mixing ratio of wear compound is indicated on the product label.)

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SURFACE PREPARATION & HANDLING (Cont/...)

- (e) For best adhesion: pre-heat application surface and rub a small amount of the mixed wear compound on to the surface.
- (f) For improved performance / mechanical properties, post cure the already hardened wear compound for approximately 4 hours at 80°C.
- (g) NOTE: Application Tools can be cleaned with various Solvents: i.e. Industrial Methylated Spirits, Toluole, Lacquer Thinner.
- (h) The product is not water smoothable / soluble

PROPERTIES & USES:

The Eli-Cote FR1008HT has been designed for the protection of surfaces subjected to high wear, particularly on surfaces where solids or slurries cause severe abrasion. The mortar provides a long lasting lining to metal and concrete surfaces.

The soft thixotropic texture of the mortar allows for easy mixing and makes the product suitable for horizontal, as well as vertical applications

NOTE:

By warming the mortar up to 40°C the following improvements can be achieved -

* **Quicker setting times**

(Further reduction in downtime)

* **Easier mixing operation**

(Further reduction in downtime)

* **Better Adhesion**

(Better finish - longer life)

STORAGE STABILITY: Under dry and cool conditions in sealed containers: 12 months

TOXICITY: Eli-Cote FR1008HT Resin is non-toxic at ambient temperatures and has low skin irritation potential. However, for good industrial hygiene, gloves should be worn and adequate ventilation must be ensured during application.

Eli-Cote FR1008HT Hardener should be stored under cool and dry conditions in tightly closed containers. The hardener is an irritant to the skin and eyes. Direct contact must be avoided and eyes must be protected. Protective clothing including gloves and goggles must be worn when handling the hardener. Good ventilation must be provided and care must be taken to avoid breathing any vapour. In case of accidental contact with the skin, wash affected area with soap and water (not solvent). In case of splashes into the eye, rinse immediately with plenty of water and consult a doctor without delay.

PACKAGING: 1,5 litre kits, 3 litre kits and 6 litre kits

NOTICE: The technical specification and / or our technical advice, whether verbal, in writing or by trials, is given in good faith and based on our test results obtained but without warranty. It does not release the user from the obligation to test the products supplied by us or any third party as to the suitability for the intended application.

The application, use and processing of the products are beyond our control and Messrs Elite Chemical Industries (Pty) Ltd's legal obligation in respect of any sale of its products shall be determined by the terms of its conditions of sale.

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