

FIRECRETE ENSTD

General Properties

Sandersfire Firecrete ENSTD Mortar is dry blended from high quality gypsum plaster and carefully graded fire resistant aggregates to give excellent fire resistance, strength and versatile workability in wall and floor seal applications.

Firecrete ENSTD is readily mixed with water, to consistencies ranging from pourable through to troweable, with a controlled expansion on setting to give a flame and smoke tight seal within the opening and around all services.

Specification

| | |
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| Description | White free flowing powder |
| Loose Bulk Density | 650 kg/m ³ |
| Wet Cast Density | 1250 - 1350 kg/m ³ |
| Dried Density | 880 - 940 kg/m ³ |
| Work Time | 45 to 60 minutes |
| Curing Time | 2 hours |
| Reaction to Fire | Class F : EN13501-1 |
| Resistance to Fire | EN1366-3 : 2009 EN13501-2 as given in Annex C See ETA 14/0281 |
| BS476 Fire Resistance | 240 mins @100mm thickness |
| BS476 Insulation | 240 mins @100mm thickness |
| Thermal Conductivity | 0.21W/mK – EN1745 |
| Airborne Sound Reduction | 47dB @ 100mm thick |
| Non Combustibility | In accordance with BS 476 Part 4 |
| Load Bearing Capacity (to failure) @100mm thick | Up to 5.0kN/m ² |
| Compressive Strength | 6.0 N/mm ² @ 24 Hours 12.5 N/mm ² @ 28 Days |
| Approvals | BS, UL |
| Mix Ratio (Firecrete HS to Water by weight) | 1.6 : 1 |
| Packaging | 20kg Paper valve sack |
| Coverage | 4 sacks/m ² at 100mm thick |
| Shelf Life | Up to 12 months in dry well ventilated storage |

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Mixing and Installation Instructions

Mix with clean water in a clean mixing vessel. Slowly add the powder to the water while mixing to ensure a smooth lump free mixture.

Do not attempt to remix by adding more water after the mortar has started to set as this will interfere with the setting process.

The mixed mortar will remain usable for 45-60 minutes depending on the batch size, water content and temperature.

Ensure all surfaces of the seal are free from dust and loose material.

Fit 50mm shuttering to the bottom of the opening

Pour the mixed mortar to the required thickness in one operation.

| | By Volume Powder : Water | By Weight Powder : Water |
|--------------|-----------------------------|-----------------------------|
| Pourable Mix | 2 : 1 | 1.28 : 1 |
| Trowable Mix | 3 : 1 | 1.93 : 1 |

Yield: Typically 4 x 20kg per m² at 100mm thick.

Storage

Firecrete ENSTD should be stored in a dry well ventilated area between 5°C and 25°C. Shelf life of Firecrete ENSTD is up to 12 months from the date of manufacture.