

# FIRECRETE ENHS

## General Properties

Sandersfire Firecrete ENHS 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 floor seal applications.

Firecrete ENHS 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

<b>Description</b>	Grey free flowing powder
<b>Loose Bulk Density</b>	950 kg/m <sup>3</sup>
<b>Wet Cast Density</b>	1750 - 1900 kg/m <sup>3</sup>
<b>Dried Density</b>	1450 - 1600 kg/m <sup>3</sup>
<b>Work Time</b>	45 to 60 minutes
<b>Curing Time</b>	2 hours
<b>Reaction to Fire</b>	Class F : EN13501-1
<b>Resistance to Fire</b>	EN1366-3 :2009 EN13501-2 as given in Annex C See ETA 13/0431
<b>BS476 Fire Resistance</b>	240 mins @100mm thickness
<b>BS476 Insulation</b>	240 mins @100mm thickness
<b>Thermal Conductivity</b>	0.45W/mK – EN1745
<b>Airborne Sound Reduction</b>	50dB @ 100mm thick
<b>Non Combustibility</b>	In accordance with BS 476 Part 4
<b>Maximum Span</b>	2000mm
<b>Load Bearing Capacity (to failure) @100mm thick</b>	1000mm span - 12.68kN/m <sup>2</sup> 1200mm span - 9.37kN/m <sup>2</sup> 1500mm span - 7.61kN/m <sup>2</sup> 2000mm span - 5.04kN/m <sup>2</sup>
<b>Compressive Strength</b>	12.5N/mm <sup>2</sup> @ 24 Hours 25.0N/mm <sup>2</sup> @ 28 Days
<b>Approvals</b>	BS, FM
<b>Mix Ratio (Firecrete HS to Water by weight)</b>	3:1
<b>Packaging</b>	20kg Paper valve sack
<b>Coverage</b>	6 sacks/m <sup>2</sup> at 100mm thick
<b>Shelf Life</b>	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	3 to 3.5 :1	3:1
Troweable Mix	4:1	3.5:1

Yield: Typically 6 x 20kg per m<sup>2</sup> at 100mm thick.

## Storage

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