

PozzSand[®]

Product information sheet

A reactive fine aggregate for use as a partial replacement for natural or crushed building, and concreting sands, in all concrete, mortar and plaster applications.



AshResources
Fly ash products

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AFRIMAT[®]



Description

PozzSand® is produced from pulverised fuel ash, which is extracted from the flue gases of pulverised coal-fired power stations. A process of conditioning typically achieves a moisture content of 10% by mass. This assists in the delivery, stockpiling and general handling of the material to and on site.

The product consists of predominantly aluminosilicate spherical particles, which can enhance the performance of concrete due to their shape, size and chemical composition.

Applications

Due to its unique physical and chemical properties, PozzSand® has many applications in the production of quality concrete, mortar and plaster across the construction industry.

- Light precast concrete products (bricks, blocks, kerbs and pavers)
- Silica source in cement production (raw kiln feed)
- Concrete mixes ranging from standard to specifically designed mixes, including ready-to-use mortars
- Site-mix: used for major civil and building projects, particularly where ideal aggregates are in short supply

◆ Technical support:

Ash Resources provides a technical advisory service for on-site assistance and advice on mix design, evaluation trials and handling of their products on site. Technical data and guidance can be provided for all products used in concrete, mortars and plasters.

Advantages

- Improves the quality and consistency of concrete and mortars, particularly where gap-graded and poorly shaped sands are used
- Reduces water demand with better lubrication of the mix, resulting in increased workability and strength
- Improves rheology, providing cohesion, increased density and a better surface finish
- Cost-effective fine aggregate substitute or replacement
- Improves workability at lower water content
- Reactivity provides greater later-age strength development
- Reduces bleeding and segregation
- Improves pumpability and placeability
- Environmentally friendly

Quality Assured

All products produced by Ash Resources are controlled and tested in compliance with the company's ISO 9001 quality management system, ensuring customers of the highest level of consistency and service. PozzSand® is produced from plants carrying this prestigious internationally recognised quality accreditation.

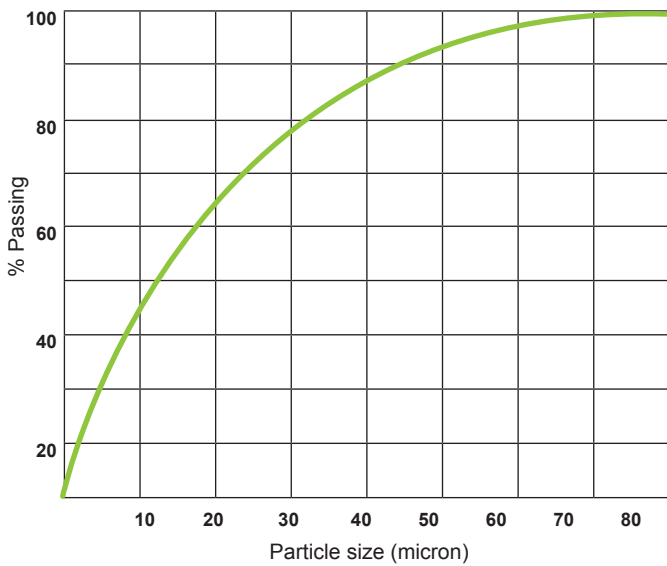




Physical and chemical characteristics

PozzSand® is unclassified fly ash with controlled water addition.

Typical grading analysis



Typical chemical composition %	
Silicon (SiO ₂)	53,8
Aluminium (Al ₂ O ₃)	34,3
Iron (Fe ₂ O ₃)	3,6
Manganese (Mn ₂ O ₃)	0,1
Calcium (CaO)	4,4
Magnesium (MgO)	1,1
Phosphorus (P ₂ O ₅)	0,3
Potassium (K ₂ O)	0,5
Sodium (Na ₂ O)	0,4
Titanium (TiO ₂)	1,6
Sulphur (SO ₃)	0,1
Loss On Ignition (LOI)	1,2

Material safety data sheet (MSDS)

Copies of the MSDS for fly ash are available on request.

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