

Fly Ash



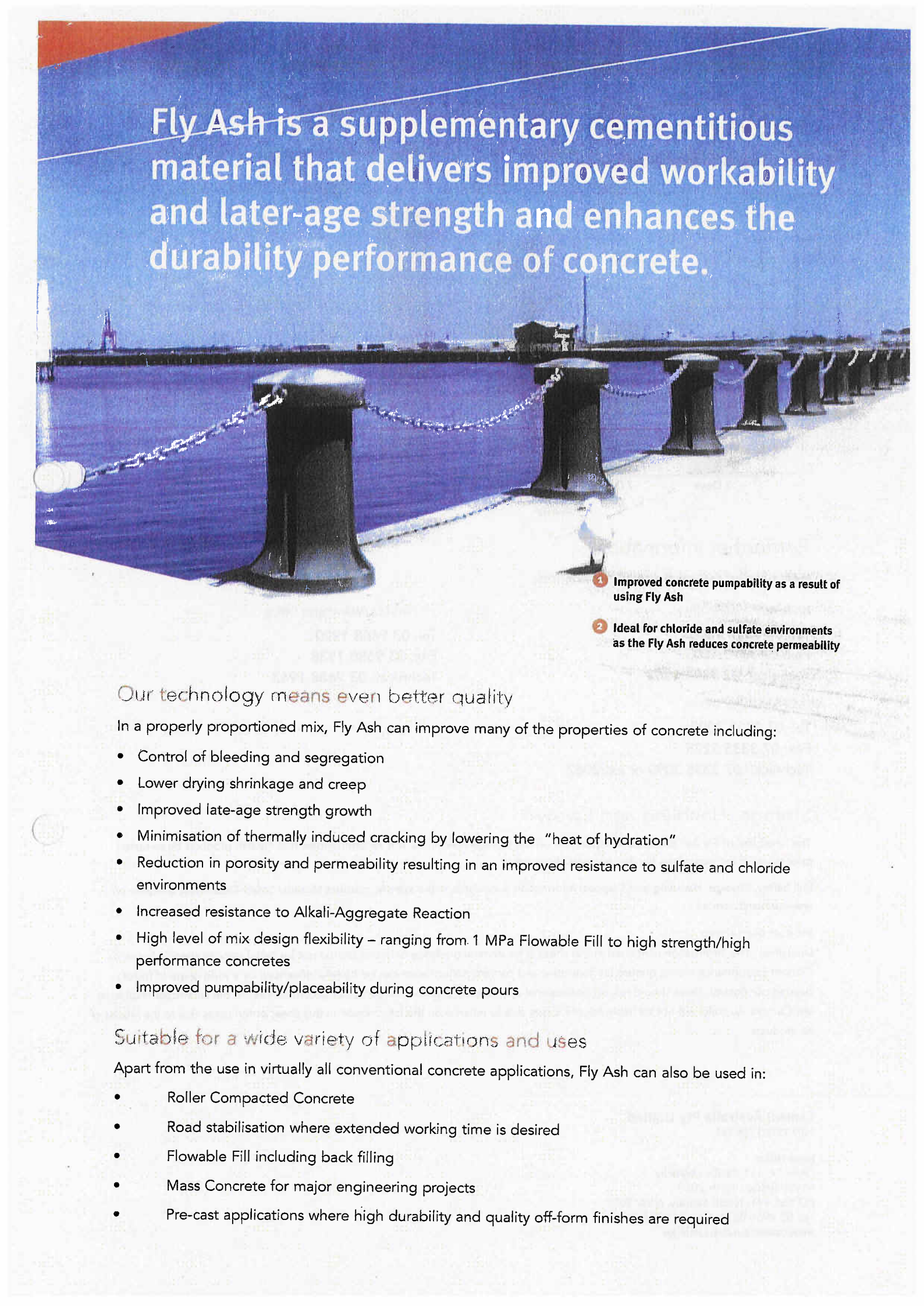


Fly Ash

Fly Ash is a supplementary cementitious material that delivers improved later-age strength, workability and enhances the durability performance of concrete.

Its physical composition is a fine grey powder comprised of minute glassy particles, mainly spherical in shape, produced as a by-product in coal-fired power stations. It is commonly used as a 20-30% cement replacement in concrete.

Fly Ash is used as a single product or may be blended to produce a Fly Ash Blend cement. Our Fly Ash Blend cements exceed the requirements of Type GB cements as specified in AS3972. Our Fine Grade Fly Ashes also exceed the requirements specified in Australian Standard AS3582.1.



Fly Ash is a supplementary cementitious material that delivers improved workability and later-age strength and enhances the durability performance of concrete.

1 Improved concrete pumpability as a result of using Fly Ash

2 Ideal for chloride and sulfate environments as the Fly Ash reduces concrete permeability

Our technology means even better quality

In a properly proportioned mix, Fly Ash can improve many of the properties of concrete including:

- Control of bleeding and segregation
- Lower drying shrinkage and creep
- Improved late-age strength growth
- Minimisation of thermally induced cracking by lowering the “heat of hydration”
- Reduction in porosity and permeability resulting in an improved resistance to sulfate and chloride environments
- Increased resistance to Alkali-Aggregate Reaction
- High level of mix design flexibility – ranging from 1 MPa Flowable Fill to high strength/high performance concretes
- Improved pumpability/placeability during concrete pours

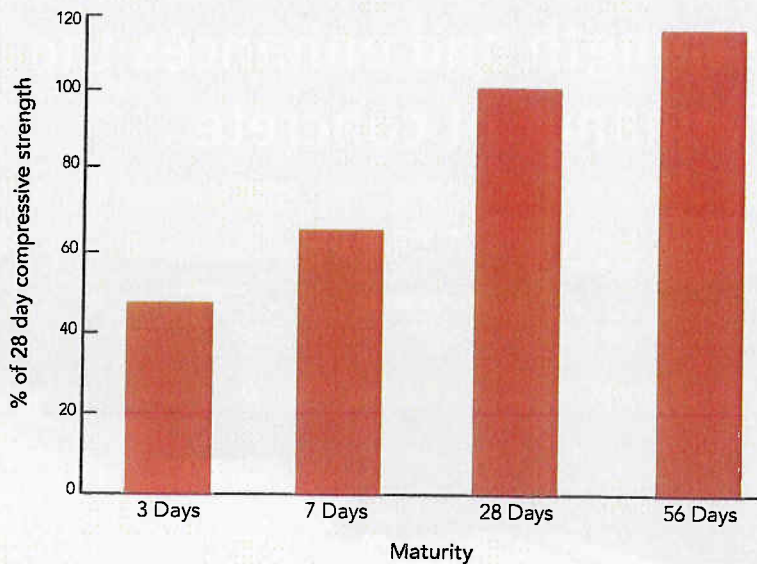
Suitable for a wide variety of applications and uses

Apart from the use in virtually all conventional concrete applications, Fly Ash can also be used in:

- Roller Compacted Concrete
- Road stabilisation where extended working time is desired
- Flowable Fill including back filling
- Mass Concrete for major engineering projects
- Pre-cast applications where high durability and quality off-form finishes are required

Product Performance

Compressive Strength Development



For further information

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Storage, Handling and Safety

The 'shelf life' of Fly Ash products is dependent on the storage conditions. It is recommended that Fly Ash products be re-tested prior to use if the age of the Fly Ash exceeds six months.

Full Safety, Storage, Handling and Disposal information is available in the specific product Material Safety Data Sheet available on www.cemaust.com.au

Product Disclaimer

Disclaimer: The information contained in this sheet is for general guidance only and should not be relied upon in specific instances. Cement performance results quoted are indicative and cement performance can be heavily influenced by a wide range of factors beyond our control. Users should rely on professional advice according to their particular circumstances. To the extent permissible by law Cement Australia will not be liable for any losses due to reliance on the information in this sheet or for losses due to the misuse of its products.

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Attachment C - Confidential