

PRODUCT DATA SHEET

DINGO FIRE RATED MORTAR



Dingo Fire Rated Mortar is a ready-to-mix mortar designed for high-temperature applications. This mixture is a cement based, rapid-setting mortar which contains alumina cement and carefully chosen aggregates, making it suitable for new builds and repairs on structures such as BBQ's, pizza ovens, fireplaces and chimneys.

Product Uses:

- Boasting heat resistance capability up to 800°C under AS 1530.1:1994(R2016).
- Rapid-setting formula which provides a faster final set time than standard mortar mixes. Convenient and easy to use – simply add water.

Product Data:

Form/Colour	Powder / Grey
Available in	10 kg bags
Product mix	Special cement, selected aggregates, and additives
Shelf life	12 months if stored properly in unopened, original packaging
Storage conditions	Dry, cool, shaded place
Density	1.60 kg/ltr (bulk density of powder) 2.20 kg/ltr (density of fresh mortar)
Mixing ratio	1.6 – 1.7L of clean water per 10kgs bag
Yield	10 kg of powder yields approximately 6.5L of mortar
Application temperature	5 °C Min - 35 °C Max
Surface temperature	5 °C Min - 35 °C Max
Initial Set Time	Approx. 2 Hours at 20°C
Final Set Time	Approx. 3 Hours at 20°C
Return to service	48 Hours at 20°C ***see application instructions for further information on burning in time-frames
Pot Life	1 Hour at 20°C



Application Instructions:

Surface Preparation Instructions	<p>Substrate must be free of all contaminants such as dust, loose particles or any substances that might impede bonding. For optimal results, pre-soak the surface/brickwork prior to bedding to reduce the absorption of the substrate/brickwork. Remove any freestanding water that may be left on the surface before bedding.</p>
Mixing Instructions	<p>Gradually add the powder to the pre-measured, clean water (starting with the minimum water amount) to achieve the desired consistency. Mechanically blend the mixture at a slow pace for a minimum of 3 minutes using a low-speed electric drill (maximum 500 revolutions per minute) with a disc agitator attached, until it reaches a smooth texture. It's important to note that this product should NOT be mixed by hand. If the mixture isn't to the desired consistency, additional water can be added but be sure not to overwater the mixture. Only add the max amount of water that is recommended.</p> <p>Note: It is recommended to mix a small test batch to confirm the optimal mix ratio for working consistency based on current environmental conditions, particularly temperature. Warmer conditions will cause the mix to harden quicker than in cooler conditions.</p>
Application Instructions	<p>Applying the mix to your substrate/brickwork should be done using a steel trowel at all times. Upon finishing to smooth the surface, you can continue with the steel trowel or use a float of your choice. The mix will require 3 hours to reach final set time where the mixture will be hardened.</p> <p>It's important to note that no other additives should be added to the mixture as this will greatly impact the heat resistance within the mix.</p> <p>***CRITICAL RETURN TO SERVICE STEPS <i>Before returning to service, a minimum of 48 hours drying is necessary before applying heat gradually. This should be done by SLOWLY increasing the applied temperature over 2-4 hours. DO NOT apply immediate, forced heat onto the mortar as this will cause cracking.</i></p>
Curing Instructions	<p>Ensure that the surface remains visible and protect the area from drying out by protecting the area if in direct sunlight.</p>
Clean-Up Instructions	<p>Immediately remove all wet material from mixing vessels and tools using clean water before product hardens.</p>