

# Builders Clay

## PRODUCT DATA SHEET

BORAL  
BUILDERS CLAY

**Boral Cements Blue Circle® Builders Clay** is a finely milled air separated fire clay. It is also known as a kaolinic clay possessing high plasticity, dry strength and refractory properties. Typically used as a plasticiser for building mortar, a general purpose filler and an ingredient in refractory formulations.

### IMPORTANT NOTE ON COLOUR

This clay is a naturally occurring raw material so the colour can vary from off-white to pale grey to pale pink. All **Builders Clay** should be checked prior to use in colour sensitive applications.

**NO CLAIMS will be considered for colour variation once used. No colour specification is available.**

### IMPORTANT NOTE ON ALL CLAY MATERIALS

With any clay material, it is strongly advised to conduct trials on all mix designs that the materials shall be used in, to help ascertain that final product performance characteristics comply with relevant Australian Standards. In particular, mortars should be tested for compliance to AS 3700 – 1998 Masonry Structures Code, which provides detailed information on mortar mix design in respect to different classifications and applications, as well as performance and testing requirements.

Mortars and renders containing excessive clay and fine silt contents may contribute to poor product performance in respect to bond, flexural and compressive strengths, excessive shrinkage and lower durability.

Naturally occurring brickies sands may also produce similar detrimental results.

### APPLICATION

In all cases clay should not be used as a substitute for lime.

As a rule of thumb when using clay – **use as little as possible to obtain the desired workability and finish.**

**Boral Cement** does not specify any mix designs when using clay, as any mix is dependent on the type of sand used and the many variations thereof.

### TYPICAL CHEMICAL COMPOSITION %

(BY X.R.F Analysis)

SiO <sub>2</sub> :	79.5
Al <sub>2</sub> O <sub>3</sub> :	13.1
TiO <sub>2</sub> :	0.8
Fe <sub>2</sub> O <sub>3</sub> :	1.3
CaO:	<0.1
MgO:	0.1
K <sub>2</sub> O:	0.2
Na <sub>2</sub> O:	<0.1
L.O.I.	4.8



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### TYPICAL PHYSICAL PROPERTIES:

Refractoriness: 1570°C

### AVAILABILITY

**Builders Clay** comes in 20kg plastic lined, multi walled paper sacks. Stacked 54 bags per pallet.

### SAFE HANDLING

Avoid generating dust. Use approved dust masks to avoid inhalation of airborne particles. The use of goggles, rubber gloves and barrier cream is also recommended.

Manual handling of bagged products without proper training may result in personal injury. Whenever possible you should use mechanical aids or share the load with another person.

For further safety information consult the **Material Safety Data Sheet** for the product.

The information in this Data Sheet and any advice given should be viewed as a guide only. Boral makes no guarantee of the accuracy or completeness of the information and recommends you conduct your own testing to determine suitability for your specific purpose.

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#### **Boral Cement**

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