

ZIRCONIA COATING Type ZC-2

General Information

ZIRCAR Ceramics' Zirconia Coating Type ZC-2 is waterbased, concentrated suspension of Zirconium Oxide. When applied to ceramic, graphite or metal substrates ZC-2 imparts a high-purity Zirconium Oxide (ZrO₂) surface that is extremely resistant to molten metals, metal slags, weld splatter and other reactive compounds. ZC-2 dries hard to a smooth surface.



Characteristics & Properties

Color	Cream
Typical Composition, % dried	
ZrO ₂	95 - 99
Al ₂ O ₃	1-5
Maximum Use Temperature, * °C (°F)	1900 (3500)
Coverage, ft ² /gallon on non-porous surface	250 to 500
Shelf Life	One Year +

The data presented herein is intended to help the user to determine the appropriateness of this material for their application. This data is a nominal representation of this product's properties and characteristics and therefore should not be used in preparing specifications. * Maximum use temperature is dependent on variables such as stresses, both thermal and mechanical, and the chemical environment that the material experiences.

Suggested Applications

Non-wetting wash for Crucibles, Molds, Ladles and Spouts for use in Ferrous and Non-Ferrous Metals. Non-stick coating for saggers, setters and fixtures for use in powder metal and electronic ceramic sintering. Refractory masking in laser drilling applications.

Availability of Standard Coating

ITEM #	DESCRIPTION
A39-01	ZC-2, 1 Gallon

To Order:

Standard items: ZC-2 is made to order and will usually ship approximately 7 business days after an order is accepted.

Custom preparations, such as 5-gallon bucket, are available.

Use Instructions

1) Clean surfaces to be coated, making certain they are free of contamination and loose particles.

2) Mix contents gently yet thoroughly before using. Stirring with a spatula is usually sufficient. Passing ZC-2 through a screen/filter can help remove large solid particles that may have formed as a result of material drying on container walls above the fluid line during storage.

3) Thoroughly coat surfaces with cement. Application of thin layers of material can be achieved by brushing, spraying or dipping. Allow time for each layer to air dry (below 60°C/140°F) before applying more. Reapply the material as required to assure even coating and desired thickness.

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