



ZIRCONIA COATING TYPE RS-ZIRGUARD

ZRCI Zirconium Oxide Coating Type RS-ZIRGUARD is a cream colored, water based paint of Zirconium Oxide (ZrO_2). It is produced using high-purity, partially stabilized Zirconium Oxide (4 wt% CaO). It provides a high purity ceramic coating with **utility to 1900°C (3452°F)**. It exhibits **high chemical resistance and excellent release properties**. Type RS-ZIRGUARD produces a hard, abrasion and chemical resistant coating that protects all ceramic bodies against most molten metals and corrosive environments, protecting them from spalling, dusting, and chemical attack. Type RS-ZIRGUARD may be applied to soft or fibrous structures to produce a more wear resistant surface layer which is also resistant to most high temperature reactions which may degrade the ceramic.

- **WILL STICK TO MOST CERAMICS**
 - Sintered Fused-Silica
 - Fiber Blankets, Boards, Felts
 - Low-Density Bricks & Boards
 - Pulp-Molded Fibers
 - Graphites and Carbons
- **HARD, ABRASION AND CHEMICAL RESISTANCE**
- **STOPS DUSTING & SPALLING**
- **SELF RIGIDIZING**
- **PROTECTS TO 1900°C (3452°F)**
- **WITHSTANDS CYCLIC USE**
- **PAINABLE LIKE HOUSEPAINT**
- **SAFE, WATER-BASED**

USE INSTRUCTIONS

RS-ZIRGUARD is easily applied by brushing or spraying like ordinary house paint.

1. Clean the substrates of loose materials, oils, dirt, etc.
2. Apply 1 to 2 coatings by brush or spray. Air dry between applications.
3. Air dry thoroughly before heating.
4. The coating becomes hard and adherent after heating to above 300°C (570°F).

PROPERTIES & CHARACTERISTICS

Nominal Composition, wt%	
ZrO_2	90
Other	10
Max. Use Temp. *, °C(°F)	1900(3452)
Use Atmospheres	All
Shelf Life	Three months
Coverage, ft ²	100-400
Color	Cream
Vehicle	Water-based

AVAILABILITY

Item #	Description
OS70	RS-ZIRGUARD, 1 Quart
OS71	RS-ZIRGUARD, 1 Gallon

ZIRCAR Refractory Composites, Inc.

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Technical Data

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