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Type ZO

Calcia (4 wt.%) - Stabilized Zirconia Water-Based Coating

Type ZO is a water-based paint that yields a moderately-hard coating that is 97% Zirconium Oxide [4% CaO Stabilized] and 3% Aluminum Oxide after heating to >600 C (>1112 F). Easy-to-use coating that can be used to 1800 C (3272 F).

Key Attributes

- Resistant to Molten Metals
- Very Low Thermal Conductivity
- Low Electrical Conductivity
- Applied Like House Paint
- Safe, Water-Based, No VOC's

Ideal Use

- Crucible/Mold Coatings for Reactive Molten Metals including Precious Metals
- Low-Thermal-Conductivity Layer
- Anti-stick/Reaction-Barrier Layer

Use Notes

1. Resuspend if needed. Can dilute with water.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one thin layer by brush or spray like ordinary house paint. Apply additional layers if needed, after drying prior layer.
4. Allow to thoroughly dry at room temperature before use.

Safety Information

- Consult MSDS before use.
- Avoid breathing of spray/vapors.
- For Industrial Use only.



Specifications

Active Ingredient	ZrO ₂ *
Max Use Temperature	
Air/Inert/Vac (no C)	3272 F / 1800 C
Vac (with C present)	2552 F / 1400 C
Use Atmosphere	All
Fired Composition	97% ZrO ₂ - 3% Al ₂ O ₃
Liquid Carrier	Water
Binder Phase	Al ₂ O ₃
Brookfield Viscosity (cps)	1100-2150 @3/60
Specific Gravity	2.1
Color	Cream
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	2-3
H F R Ratings	1-0-0
Substrate Use	All
Other:	* with 4 wt% CaO

Sizes and colors

Type ZO is a cream-colored paint.

Standard Size: 1-gallon wide-mouth Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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