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PrimeStop SC

Silicon Carbide Coating

PrimeStop SC is a premium interaction barrier/stop-off water-based coating of Alpha-Silicon Carbide (α -SiC). PrimeStop SC is non-reactive with many materials, including molten aluminum-lithium alloys. Additionally, PrimeStop SC has good adherence to ceramic substrates, and is usable to >1100 C with all atmospheres.

Key Attributes

- Non-reactive with many materials
- Relatively inert with Al-Li alloy melts
- High emissivity/high thermal conductivity
- Excellent adherence to ceramics at high temperatures
- Usable to 1100 C in air and other atmospheres
- Water-based, easy to use and cleanup

Ideal Use

- Molten Al-Li and nonferrous metal processing
- Barrier coating to reduce diffusion/reactions/interactions
- Whenever a high emissivity/blackbody coating is required

Use Notes

1. Re-suspend if needed.
2. Use full strength, or dilute as desired with water.
3. Clean surfaces to be painted of any oils, dirt, scale, etc.
4. Apply 1-3 layers by brush, dip, or spray like ordinary house paint, drying after each layer.
5. Allow to dry thoroughly before use. If the coated article is not exposed to high temperatures shortly after drying, it is recommended to heat the coating in air to 250-300 C to ensure good handleability.

Safety Information

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



Specifications

Active Ingredient	Silicon Carbide (α -SiC)
Max Use Temperature Est.	>1100 C (>2012 F)
Use Atmosphere	All
Fired Composition	$>85\%$ α -SiC
Liquid Carrier	Water
Binder Phase	$2Y_2O_3 * Al_2O_3$
Brookfield Viscosity (cps)	1200 @ 3/60
Specific Gravity	1.40
Color	Gray
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	2
H F R Ratings	1-0-0
Substrate Use	Ceramics

Sizes and colors

PrimeStop SC is a gray colored paint.

Standard Size: 1 gallon, 1 quart wide mouth Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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