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**Zypcoat® LSM**

## Lanthanum-Strontium-Manganese Oxide Electrically-Conductive Coating

Zypcoat LSM is a Lanthanum Strontium Manganese Oxide water-based coating that provides unique electrical conductivity as well as ferromagnetism, refractoriness, and stability. The Zypcoat LSM yields a well-bonded coating when applied to ceramic substrates – allowing a high-purity LSM compound in a paintable coating for applying relatively thick layers (>2 mils or >50 micrometers) that are usable to high-temperature.

### Key Attributes

- Electrically conductive with use to >1300 C
- Expected high emissivity

### Ideal Use

- Electrically-conductive refractory coating
- Blackbody coating

### Use Notes

1. Re-suspend: coating settles on standing.
2. Clean surfaces to be painted of any oils, dirt, scale, etc.
3. Apply 1-2 layers by brush, drying after each layer.
4. Allow to thoroughly dry before use.

### Safety Information

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



### Specifications

Active Ingredient	La <sub>2</sub> O <sub>3</sub> – SrO – MnO <sub>x</sub>
Max Use Temperature	
Air	>=1300 C (>=2372 F)
Vacuum/Inert	Not tested
Fired Composition	>97% La <sub>2</sub> O <sub>3</sub> – SrO – MnO <sub>x</sub>
Liquid Carrier	Water
Binder Phase	Proprietary
Brookfield Viscosity (cps)	2500-3000
Specific Gravity	1.62
Color	Black
Shelf Life (months)	>12
Coverage (ft <sup>2</sup> /gal)	200 to 400
Coating pH	6-7
H-F-R Ratings	1-0-0
Substrate Use	Ceramics

### Sizes and colors

Zypcoat LSM is a black coating.

Standard Sizes: 1 pint and 8 oz. Nalgene containers.

### CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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