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Zypcoat® ITO

Indium Tin Oxide Water-Based Coating

Zypcoat ITO is a 90% In_2O_3 , 10% SnO_2 coating that provides unique properties of electrical conductivity as well as low thermal conductivity along with refractoriness and stability.

Zypcoat ITO yields a well-bonded Indium Tin Oxide coating when applied to ceramic substrates – allowing a high-purity ITO phase in a paintable coating for applying relatively thick layers (>2 mils or >50 micrometers) thickness that are usable to high-temperature.

Key Attributes

- Electrically conductive with use to 1000 C
- Low thermal conductivity
- Reportedly low emissivity

Ideal Use

- Whenever electrically conductive, refractory coatings are desired

Use Notes

1. Re-suspend: coating settles on standing. Use full strength or with minimal dilution with water.
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	90% In_2O_3 , 10% SnO_2 (ITO, Indium Tin Oxide)
Max Use Temperature	
Air	1000 C (1832 F)
Vacuum/Inert	Not tested
Fired Composition	>75% ITO
Liquid Carrier	Water
Binder Phase	Proprietary
Brookfield Viscosity (cps)	Circa 300
Specific Gravity	2.2
Color	Light Olive Green
Shelf Life (months)	>12
Coverage (ft ² /gal)	100 to 400
Coating pH	2-3
H-F-R Ratings	1-0-0
Substrate Use	Ceramics: Aluminum Oxide preferred

Sizes and colors

Zypcoat ITO is a light olive green paint

Standard Sizes: 1 oz. and 2 oz. Nalgene container

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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