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LSI Ink

Water-Resistant Ink/Coating of Titanium Dioxide

LSI Ink is a ready to use water-based, totally inorganic white ink that is designed to produce a tough, abrasion-resistant and water-resistant coating on all substrates. The LSI Ink is ideal for marking and identification of parts, and is usable to 1472 F (800 C). Note that thinner coatings give the best results.

Key Attributes

- Adherent to metals and ceramics with thermal cycles.
- Completely water insoluble after heating to approx. 125 C for 3 hrs.
- Minimal outgassing on heatup ... with water as the species evolved.
- High-temperature stable. Does not glaze, melt, run, become tacky or chalk off.
- Easily applied, like house paint
- Water-based; utensils are readily cleaned up with water [before drying]
- Highest flexibility

Ideal Use

- Marking/Identification/Coding of parts being heat-treated
- Marking/Identification/Coding of tags used at high-temperatures
- Providing a water-insoluble mark or coating on a substrate

Use Notes

1. Resuspend the paint
2. Clean surface of oil, dirt, scale etc.
3. Apply a thin layer by air-spray or brush
4. Allow to dry before use.
 NOTE: Water insolubility requires drying at 125 C or higher. Can be achieved by spraying onto a warm substrate or using heat lamp or dryer.

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For industrial use only.
- Avoid Freezing



Specifications

| | |
|---------------------------------|--|
| Active Ingredients | TiO ₂ , Li ₂ O, SiO ₂ |
| Max Use Temperature | >1472 F/ >800 C |
| Use Atmosphere | All |
| Fired Composition | Proprietary |
| Liquid Carrier | Water |
| Brookfield Viscosity (cps) | 167-227 @2/60 |
| Specific Gravity | 1.00 |
| Color | White |
| Shelf Life (months) | >12 |
| Coverage (ft ² /gal) | to 400 |
| Coating pH | 10-11 |
| H F R Ratings | 1-0-0 |
| Substrate Use | All |
| Other: Water Resistance | |
| | After ambient-temperature drying ... Low |
| | After 125 C, 3 hrs... High |

Sizes and colors

LSI Ink is a white-colored paint.
 Standard Sizes:
 1 gallon pail
 5 gallon pail

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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