



120 Valley Court
 Oak Ridge, TN 37830
 Ph: 865-482-5717
 FAX: 865-482-1281
 zypcoatings.com

LK Ink

Hard, Abrasion-Resistant and Water-Resistant Ink of Titanium Dioxide

LK 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 LK 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]
- Moderate 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 100-125 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 vapors.
- For industrial use only.
- Avoid Freezing



Specifications

Active Ingredients	TiO ₂ , Li ₂ O, K ₂ O, SiO ₂
Max Use Temperature	1472 F/ 800 C
Use Atmosphere	All
Fired Composition	Proprietary
Liquid Carrier	Water
Brookfield Viscosity (cps)	53-58 @2/60
Specific Gravity	1.04
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 to Moderate
After 100 C, 24 hrs ...	High
After 125 C, <=3 hrs ...	High

Sizes and colors

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

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

ZYP Coatings, Inc. (ZYP) makes no warranties, express or implied, including the warranty of merchantability or fitness for a particular service. Product is for industrial/commercial use only. Users should determine suitability for their use. In no event will ZYP be liable for any direct, indirect, incidental, special or consequential damages or losses including, but not limited to loss of profits, in any way related to this product regardless of the legal theory asserted.