



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

BN ZAPA Screen Printing Paste

Provides a Tough, Flexible, and Water-Resistant Coating of Boron Nitride

A ready-to-use water-based, totally inorganic, pH-Acidic (like lemon juice) white paste that is designed to produce a tough, flexible, abrasion-resistant and water-resistant coating of Boron Nitride on all substrates – cloths, metals, ceramics and graphite. BN ZAPA is a paste with Zirconium Oxide binder designed for applying to cotton, cotton-polyester or ceramic fabrics or cloths.

BN ZAPA can be applied by trowel, spatula, putty knife, squeegee or paint brush. Cure the applied coating at approximately 130 C if water insolubility is desired. The coating itself is usable to over 1652 F (over 900 C). Thinner coatings give the best results.

Key Attributes

- Adherent to most all materials; withstands thermal cycles.
- Water insoluble after heating to approx. 130 C for ≤ 1 hr.
- Minimal outgassing on heating, with water vapor as the evolved species
- High temperature stability: does not glaze, melt, run, become tacky or lose adherence
- Easily applied, like house paint
- Water-based; utensils are readily cleaned up with water

Ideal Use

- Coating cotton or polyester fabrics, and safety cloths
- Coating ceramic cloths/fabrics or heat-resistant textiles, tapes, felts, or pads for use at high temperatures
- Providing a water-insoluble Boron Nitride coating on a substrate

Use Notes

1. Resuspend the paint
2. Clean surface of oil, dirt, scale etc.
3. Apply a thin layer by trowel, spatula, putty knife, squeegee or paint brush.
4. Allow to dry before use. After room temperature drying, use $T \geq 130$ C if water insolubility is required. Drying/curing can be achieved by using heat lamp or dryer.



Specifications

Active Ingredients	BN, ZrO_2 , Al_2O_3 , P_2O_5
Max Use Temperature	>1652 F/ >900 C
Use Atmosphere	All
Fired Composition	Proprietary
Liquid Carrier	Water
Brookfield Viscosity (cps)	Circa 2000 @4/60
Specific Gravity	1.28
Color	White
Shelf Life (months)	>12
Coverage (ft ² /gal)	to 200
Coating pH	2
H F R Ratings	1-0-0
Substrate Use	All

Other: Specifically formulated for coating fabrics and retaining flexibility; providing water-insoluble coating after heating to 130 C or higher

Sizes and colors

BN ZAPA Screen Printing Paste is white
Standard Sizes: 1 quart, 1 gallon pail

Safety Information

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

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.