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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>= 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 ₂ O ₃ , P ₂ O ₅
Max Use Temperature	>1652 F/ >900 C
Use Atmosphere	All
Fired Composition	Proprietary
Liquid Carrier	Water
Viscosity	Thick Paste
Specific Gravity	1.25
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.

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