



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

ZYP Boron Nitride Lubricoat EAS-25 White and Blue

Manufactured by ZYP exclusively for Pyrotek®

High-Purity, Total Non-Wetting Boron Nitride Protective Coating

ZYP Boron Nitride Lubricoat® EAS-25 is a fully-loaded (very high boron nitride content) that displays the best non-wetting performances with molten aluminium, magnesium and other non-ferrous metals. It allows for smooth liquid flow, and a more efficient transfer of molten metal while protecting essentially all ceramic liquid metal transfer components.

Key Attributes

- Acts like Teflon® to molten metal
- Applies like house paint
- Contains no added fillers
- Water-based, free of solvents and volatile organic compounds (VOCs)
- Easy to dilute and clean up

Ideal Use

- Transition plates
- Basins
- Tubes
- Funnels
- Gates
- Troughs
- Pouring spouts
- Risers
- Runners
- Stalk tubes
- Tundishes

Use Notes

1. Remove any oil, dirt, scale or other contaminants from the surface being coated.
2. Mix the coating thoroughly.
3. Apply a thin, even layer of coating with a standard foam brush (the brush should be the width of the substrate). The coating should be applied in one quick pass.
4. Apply a second coat by repeating the previous step. The first coat doesn't have to be fully dry prior to the second coat.
5. Allow the coating to dry thoroughly before use.
6. Clean the coating application tools with water.



Specifications

Active Ingredient	Boron nitride >99% purity
Maximum Use Temperature	Air 1000°C/1832°F Vacuum 1400°C/2552°F Inert 1800°C/3272°F
Fired (Dried) Composition	75–80% boron nitride 20–25% aluminium oxide
Liquid Carrier	Water
Specific Gravity	1.2
Colour	White, unless specified blue
Shelf Life	Typically 12-plus months
Coverage—m ² /gal (ft ² /gal)	9–37 (100–400)
Coating pH	>4
Substrate Use	Graphite, ceramics, etc.
Dilution Ratio (water:coating)	3:1 maximum
Binder Phase	Aluminium oxide
H-F-R Safety Ratings	1-0-0
Brookfield Viscosity (cps) @4/60	2400–3600
Ready-to-Use Composition	25–30% solids 70–75% liquid phase

Safety Information

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.

Handling Instructions

If ZYP BN Lubricoat EAS-25 is diluted with water, the likelihood of settling will increase as the dilution ratio increases. Once settling occurs, it can be difficult to resuspend the coating.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

ZYP Coatings, Inc. (ZYP) and Pyrotek Inc. make 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 or Pyrotek 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. Teflon®—reg. trademark of DuPont. Pyrotek® is a registered trademark of Pyrotek Inc.