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ZYP Boron Nitride Lubricoat - NH
ZYP Boron Nitride Lubricoat - NH Blue

Manufactured by ZYP exclusively for Pyrotek®

Boron Nitride Protective Coating/Paste/Release Agent

ZYP Boron Nitride Lubricoat®-NH is a water-based, solvent-free coating. It has a mid-level loading of boron nitride to provide effective release and lubrication of moulds, and protection of metal, ceramic, or graphite liquid-metal transfer components.

Lubricoat-NH is a standard white coating which can blend in with the normal colour of ceramic substrates.

Lubricoat-NH-Blue has better visibility than standard Lubricoat NH. The blue colour serves as a visual aid during the application process, assisting personnel to see where coating has been applied. It also serves as a wear indicator for when the equipment should be recoated.

Key Attributes

- Acts like Teflon® to molten metal
- Lubricates and protects moulds and transfer components
- Contains no added fillers
- Non-wetting to aluminium, magnesium and other nonferrous metals
- Water-based, free of solvents
- Coating can be diluted with purified water or used in its non-diluted form
- Reduces refractory maintenance and extends life

Ideal Use

- Troughs
- AutoPour ladles
- Tubes
- Funnels and spouts
- Filter bowls and boxes
- Caster tips
- Dross press heads
- Risers
- Tundishes



Use Notes

1. Remove any oil, dirt, scale or other contaminants from the surfaces being coated.
2. Mix the coating thoroughly.
3. Apply by air-spraying or brush.
4. Allow the coating to dry thoroughly before use.
5. Clean the coating application tools with water.

Specifications

Active Ingredient	High purity boron nitride
Maximum Use Temperature	Air 1000°C/1832°F Vacuum 1400°C/2552°F Inert 1800°C/3272°F
Fired (Dried) Composition	>60% boron nitride
Liquid Carrier	Water
Specific Gravity	1.14
Colour	White, unless specified blue
Shelf Life	Typically 12-plus months
Coverage—m ² /gal (ft ² /gal)	9–37 (100–400)
Coating pH	2–4
Substrate Use	Graphite, metals, ceramics, etc.
Dilution Ratio (water:coating)	2:1 maximum
Binder Phase	Magnesium silicate, aluminium
Brookfield Viscosity (cps) @4/30	11,000–15,000

Safety Information

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

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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