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# Boron Nitride Hardcoat®

## Unique Abrasion-Resistant Formulation

Boron Nitride Hardcoat® is the original truly tough/abrasion-resistant boron nitride coating. BN-Hardcoat is non-wetting with molten aluminum, magnesium, zinc and other non-ferrous metals and their drosses. Ideal for high-wear uses where all other boron nitride coatings fail. BN Hardcoat should ONLY be applied and dried below 80 C.

### Key Attributes

- Non-Corrosive to Mild Steel & Cast Iron
- Alkaline/Basic-pH Formula
- Non-Wetted by Molten Aluminum, Magnesium, Zinc and their Drosses
- Applied Like House paint AT ROOM TEMPERATURE
- Safe, Water-Based

### Ideal Use

- Immersion Tubes
- Metal Troughs, Molds
- Ladles, Skimmers
- Dross Buggies
- Shot Screens
- Stalk Tubes
- Funnels

### Use Notes

1. DO NOT DILUTE.
2. Resuspend the paint.
3. Clean surface of oils, dirt, scale etc.
4. Apply 1 to 2 thin layers by brush or spray to the substrate at ROOM TEMPERATURE or below 80 C.  
 NOTE: This paint contains acrylic polymers. Do not use elevated temperatures above 80 C for the drying process. Dry at room temperature or below 80 C before placing into a furnace environment where any emitted vapors or volatiles will be combusted.
5. Allow to thoroughly dry between coats and before use.

### Safety and Handling Information

- Consult SDS before use.
- Avoid freezing. • For Industrial Use only
- Avoid breathing of spray/vapors.



### Specifications

Active Ingredient	BN
Max Use Temperature	Air/Vac/Inert 1652 F/ 900 C
Use Atmosphere	All
Fired Composition	>40% BN
Liquid Carrier	Water
Binder Phase	Potassium Silicate
Active Ingredient Level	Medium Loading
Brookfield Viscosity (cps)	135-515 @3/60
Specific Gravity	1.24
Color	Gray
Shelf Life (months)	>12
Coverage (ft2/gal)	100-400
Coating pH	8-9
H F R Ratings	1-0-0
Substrate Use	All

### Sizes and colors

Standard Size: wide-mouth 1 gallon pail.  
 BN Hardcoat is a gray colored paint; turns white when heated >1292 F/700 C.

### CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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