

# PERMATECH® Boron Nitride

## DEEP BLUE™

**Description:** **Permacoat DEEP BLUE** Boron Nitride Coating takes the optimum proven molten aluminum release agent system of Boron Nitride and makes it much more economical to use. **Permacoat DEEP BLUE** can be utilized for countless applications within your aluminum casting operations and will help extend refractory life and provide a lasting non-wetting surface that protects against aluminum attack and attachment. Even when diluted with water, **Permacoat DEEP BLUE** maintains its blue color so the user will know which areas have not been coated.

### Effective Temperature Range:

- Oxidizing Atmosphere – Ambient-1800°F (982°C)
- Vacuum – Ambient-2550°F (1399°C)
- Inert Atmosphere – Ambient-3300°F (1816°C)

### Methods of Application:

- Formulated for PAINTING.
- DIPPING – Dilute with 1 part DEEP BLUE to 1 part water
- SPRAYING – Dilute with 2.5 parts DEEP BLUE to 1 part water

### Typical Properties:

Color	Blue
% Boron Nitride	20
Liquid Carrier	Water
Binder	Modified Bentonite
Coverage (ft <sup>2</sup> / gallon)	300 - 600
Relative Hardness	4
pH	7.0 - 8.0
Brookfield Viscosity (25°C / 20 rpm) (cP)	400 - 800
Specific Gravity	1.08 - 1.13
Shelf Life (Months)	>12

### Recommendations for Use:

- Thoroughly mix and suspend before use.
- All surfaces must be free of dirt, oil, grease and metal oxides.
- Ensure bottom coat is dry when applying multiple coats.
- **Caution:** Allow to dry before exposure to molten aluminum.

### Storage and Handling:

Store indoors in the original unopened container in a dry environment at a temperature not exceeding 85°F (30°C).

