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## ZYP Boron Nitride Releasecoat - 12 White ZYP Boron Nitride Releasecoat - 12 Blue

Manufactured by ZYP exclusively for Pyrotek®

### Release Coating for Aluminium, Magnesium and Other Nonferrous Alloys

ZYP Boron Nitride Releasecoat®-12 White and Releasecoat-12 Blue have a slightly higher boron nitride content, and a stronger binder system than standard Releasecoat. These coatings have good adherence, and yield excellent non-wetting and release properties with aluminium and nonferrous metals and alloys. These coatings are ready to use as-is with no mixing, and can be easily diluted.

Releasecoat 12 is a white coating that blends with the normal color of ceramic substrates. Releasecoat 12 Blue provides better visibility. The blue colour is a visual aid during application by differentiating the coating from the refractory. It also serves as a wear indicator to help identify when it's time to recoat.

#### Key Attributes

- Good release and lubrication of moulds
- Non-wetting to molten aluminium, magnesium and other nonferrous metals and their drosses, slags, fluxes and salts
- Can be diluted with purified water to the required viscosity
- Applies like house paint
- Safe, water-based, no volatile organic compounds

#### Ideal Use

- Troughs
- AutoPour ladles
- Tubes
- Funnels and spouts
- Caster tips
- Dross press heads
- Tundishes and risers
- Permanent mould castings
- Die coatings

#### Use Notes

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



#### Specifications

Active Ingredient	Boron nitride
Maximum Use Temperature	Air 1000°C/1832°F Vacuum 1400°C/2552°F Inert 1800°C/3272°F
Fired (Dried) Composition	>80% boron nitride
Liquid Carrier	Water
Specific Gravity	1.02–1.08
Colour	White, unless specified blue
Shelf Life	Typically 12-plus months
Coverage—m <sup>2</sup> /gal (ft <sup>2</sup> /gal)	9–37 (100–400)
Coating pH	7–8
Substrate Use	Graphite, metals, ceramics, etc.
Dilution Ratio (water:coating)	3:1 maximum
Binder Phase	Magnesium silicate
Brookfield Viscosity (cps) @3/60	850–1175

#### 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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