



# water-based, abrasion-resistant boron nitride coating

# **Description**

A water-based, ready-to-use boron nitride anti-stick hard coating formulated to protect metals, glass, ceramics, composites, and plastics

## **Performance Characteristics**

- Water-based, ready-to-use formulation
- No VOC's
- effective temperature range
  - o oxidizing atmosphere ambient-1562° F (850° C)
  - o inert/vacuum ambient-3272° F (1800° C)
- durable and effective abrasion-resistant coating
- complete protection by making all surfaces non-wetted by molten aluminum, magnesium, and their drosses
- ideal for high-wear uses where other boron nitride coatings fail
- easily applied like house paint to a variety of substrates
- outstanding paintability and corrosion resistance
- demonstrates exceptional green strength upon proper drying to withstand cracking, chipping, etc.

### **Recommendations for Use**

- die-casting operations, metal troughs, molds, dross buggies, funnels, stalk tubes, immersion tubes, ladles, skimmers, shot screens, etc.
- thoroughly suspend and mix before use
- all surfaces must be free of dirt, oil, grease, metal oxides, and other materials
- DO NOT DILUTE
- apply **2-3 thin layers** (1-3 mils, wet film thickness) by brush or spray\*
- ensure bottom coat is thoroughly dried when applying multiple coats
- water-based coatings need ample time to completely dry before exposure to elevated temperatures
   \*formula can be customized for spray application

# **Typical Properties**

Vehicle water Viscosity (@  $25^{\circ}$ C) as Supplied (cP) 4,000-8,000 Weight/Gallon (lb/gal) 10.75 ± 0.25

Color white
Shelf Life (months) ~6

# **Product Safety**

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

Before handling the materials listed in this bulletin, read and understand the product MSDS (Material Safety Data Sheet) for additional information on personal protective equipment and for safety, health, and environmental information.

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Advanced Technical Products Supply Co., Inc. requests that the customer read, understand, and comply with the information contained in this publication and the current MSDS(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

## **Storage and Handling**

ATP®-R33 should be stored indoors in the original unopened and undamaged container, in a dry place at a temperature not exceeding 85° F (30° C). Exposure to direct sunlight should be avoided.

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Advanced Technical Products Supply Co., Inc. 508 Northland Blvd. Cincinnati, OH 45240 USA

China Representative:

Wuxi Yura Aviation Power Co. Ltd Tel: 86-510-88270899

Visit our website: www.advancedtechnicalprod.com

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