

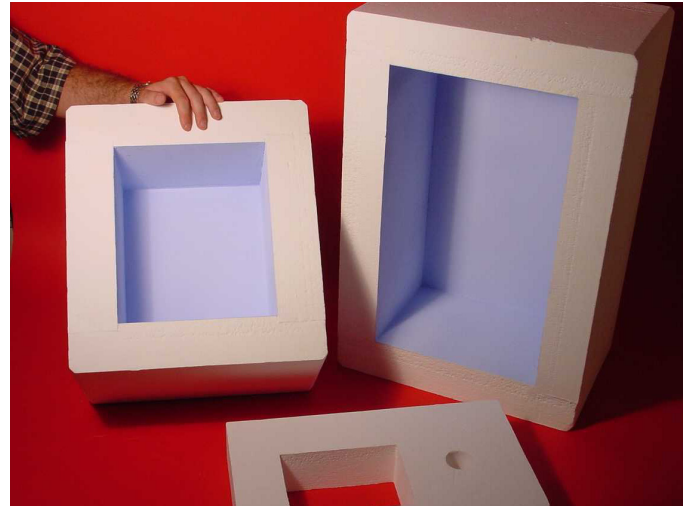


## Boron Nitride Coating Type SLICOAT-ES

### General Information

ZIRCAR Ceramics' Boron Nitride Coating Type SLICOAT-ES is a water-based dispersion of fine BN crystals. Fast to dry and very easy to apply, SLICOAT-ES provides the benefits of a non-wetting, very lubricious high-temperature coating. Boron Nitride coatings are used extensively in molten metal contact applications. SLICOAT-ES can significantly extend the life of consumable refractories and ceramic fiber products used in continuous casting applications. This can result in cleaner, higher-quality metal and greater profits for your business.

SLICOAT-ES Boron Nitride Coating (shown at right with optional blue color) is used as a non-wetting surface treatment in numerous non-ferrous metal contact applications.



### Characteristics & Properties

Color	White	
Solvent	Water	
Total Solids, %	25	
BN Content, %	20	
Particle Size	5 Microns	
Shelf Life	12 months	
Maximum Use Temperature*, °C (°F)	oxidizing	850 (1562)
	inert	1800 (3272)
Dilution	Not Required	
pH	11.0 – 12.0	
Weight, lb/gal (kg/l)	9.7 (1.2)	

The data presented herein is intended to help the user to determine the appropriateness of this material for their application. This data is a nominal representation of this product's properties and characteristics and therefore should not be used in preparing specifications. \* Maximum use temperature is dependent on variables such as stresses, both thermal and mechanical, and the chemical environment that the material experiences.

### Suggested Applications

In addition to bringing significant utility to Metal Forming applications SLICOAT-ES is ideally suitable for:

**Glass Making:** Used as a glass forming mold release agent, SLICOAT-ES helps to bring out the best optical properties in smooth glass by minimizing surface defects. Most glass compositions do not stick to Boron Nitride coatings.

**Powder Metal Sintering:** SLICOAT-ES can minimize sintering shrinkage-related distortion of metal and ceramic powders and can act as an inert barrier preventing carbon pickup from graphite kiln furniture.

**Diffusion Bonding Separator.**

### How to Use SLICOAT-ES

Regardless of the method of application, whether brushing, spraying or dipping, SLICOAT-ES should be gently stirred to ensure uniform suspension of solids. Should your particular technique require SLICOAT-ES to be thinned, use deionized or distilled water. SLICOAT-ES should be applied in thin layers and thoroughly dried before using.

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Technical Data Bulletin  
Boron Nitride Coating Type SLICOAT-ES  
[www.zircarceramics.com](http://www.zircarceramics.com)  
Page 1 of 2

# Boron Nitride Coating Type SLICOAT-ES

## Availability

ITEM #	DESCRIPTION
D186A-01	SLICOAT-ES, 1 Gal

## To Order

**Standard items:** order online or specify quantity, item # and description.  
Standard items are available for immediate shipment from stock.

**Custom preparations** such SLICOAT-ES Blue (contains a blue colorant) and 5-gallon plastic pails are available.



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