



**BEcoat®**

**ADVANCED  
BORON NITRIDE  
COATINGS**

For Aluminium Industry



ADVANCED REFRACTORY SOLUTIONS

## A GREAT CHOICE FOR GREAT USABILITY

**BEcoat®** is the new Eredi Scabini's family of Boron Nitride coatings for the aluminium industry.

**BEcoat®** products are aqueous suspensions with high concentration of Boron Nitride specifically developed for molten metal applications.

Metals and ceramic materials coated/treated with **BEcoat®** are easier to clean and last longer thanks to the excellent lubricating and non-wetting properties of Boron Nitride combined with special nano binders and additives.

**BEcoat®** is available concentrated -to be diluted- or ready to use, in different colors, and can be applied by spraying or paintbrush.

### Main features and advantages:

- Protects metals, ceramics and graphite from corrosion
- Inhibits corundum and slag growth on refractory linings
- Excellent lubricating and release properties
- High adhesion and good abrasion resistance
- Easy application by spraying or paintbrush
- Water-based physiologically safe/environmentally friendly products
- Pre-heating is recommended but not absolutely necessary
- Colored products available for easier visualization

## THE RIGHT PRODUCT FOR EACH APPLICATION



### | BEcoat® WB 100

A suspension with a very high concentration of Boron Nitride for applications on ceramic materials on which special nano-binders ensure good adhesion. The product can be diluted with water before spraying or brushing. The dilution ratio depends on the application method, temperature and material.



### | BEcoat® WB 200

A suspension with a high concentration of Boron Nitride for applications on ceramic materials on which special nano-binders ensure good adhesion. Its red coloring gives a quick and easy visual indication of the coated area. The product can be diluted with water before spraying or brushing. The dilution ratio depends on the application method, temperature and material.



### | BEcoat® WB 300

A suspension with a high concentration of Boron Nitride for applications on metal and ceramic materials. The product is ready to use and can be applied by spraying or brushing even at elevated temperature (directly to hot metallic surfaces up to 500 °C). Since this product is free of organic additives, it does not release gas and is particularly recommended for ingot moulds.

### | BEcoat® WB 330

A suspension with a high concentration of Boron Nitride for applications on ceramic products and with enhanced adhesion on metals. The product is ready to use and can be applied by spraying or brushing even at elevated temperature (spraying directly on hot metal surfaces up to 500 °C). It is particularly recommended for ingot moulds and bale-out ladles in case the application can't be repeated frequently.



CONCENTRATED



READY TO USE

A range of products developed  
to offer ease of use and great performances.  
A new step toward perfection.



#### Typical applications on ceramic materials:

- Ladles
- Launderers
- Filter boxes
- Degassing units
- Skim dams
- Hot top rings
- Casting tables
- Tubes
- Funnels and spouts
- Caster tips
- Risers
- Tundishes
- Transition plates
- Nozzles
- Stoppers

#### Typical applications on metals:

- Dross press heads
- Ingot moulds
- Casting wheels
- Skimming tools
- Skimmers
- Spoons
- Bale-out ladles



## PRODUCTS DATA

Technical Data		BEcoat® WB 100	BEcoat® WB 200	BEcoat® WB 300	BEcoat® WB 330
Colour		Grey	Red	White	White
Boron Nitride content	%	25	19	13	13
Solid content	%	37	37	16	17
Density	g/cm³	1,29	1,30	1,10	1,12
pH value		3 - 4	3 - 4	8	1,7 - 2,3
Maximum operating temperature	°C	900	900	900	900
Material required for coverage	kg/m²	0,07 - 0,04	0,07 - 0,04	0,1 - 0,06	0,1 - 0,06
Dilution ratio		1:1 - 1:3	1:1 - 1:3	Ready to use	Ready to use
Packing	kg	Pail 6; 10	Pail 6; 10	Jug 10	Jug 10
Shelf life	months	12	12	12	12

# DEVELOPING EXCELLENCE SINCE 1945

Eredi Scabini has operated on the market since 1945 and specializes in advanced refractory solutions for several industrial sectors, in particular for those who work with molten metals.

The company has always implemented a corporate policy focused on quality and the continuous innovation of its offering.

In the Research and Development laboratory, the core of the company, engineers and researchers with in-depth knowledge of ceramics, mineralogy and chemistry work constantly along with the very best international universities,

external research laboratories and the most qualified experts to create new products for specific requirements.

Over the last few years, Eredi Scabini's research has mainly focused on nanotechnology and the application of its basic principles in the refractory sector.

**BEcoat®** is the very latest innovation added to the Eredi Scabini Nanoplastic® range, and it is the result of an intense team effort with our cooperation partner **Henze BNP AG**, a pioneer in BN applications.

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