



# EKamold® BORON NITRIDE SPRAYS RELEASE AGENT AND PROTECTIVE COATING

EKamold® sprays are ethano-  
lic coatings based on  
hexagonal boron nitride and  
various binder systems.



EKamold® boron nitride sprays

## Advantages

Boron nitride's properties enable:

- Chemical resistance
- Electrical insulation
- High temperature resistance
- Non-wettability
- Lubricity
- Separation effect
- Non-toxic
- Environmental

Use in the following applications:

- Aluminum Extrusion
- Foundry Industry
- Glass Industry
- Welding and Brazing
- Sinter Metallurgy
- High-temperature Furnaces

Comparison of properties in various applications			
	EKamold® EP	EKamold® TG	EKamold® Extrusion
Aluminum Extrusion	+	+	+++
Foundry Industry	+++	-	+
Glass Industry	++	-	+
Welding and Brazing	++	+++	+
Sinter Metallurgy	+++	-	+



Typical properties			
Technical Data	EKamold® EP	EKamold® TG	EKamold® Extrusion
Color	white	white	white
Solids content (BN) *	< 15 %	< 7%	> 25%
Solvent	ethanol	ethanol	ethanol
Binder**	inorganic	organic	inorganic
Density	1.0 g/cm <sup>3</sup>	1.0 g/cm <sup>3</sup>	1.0 g/cm <sup>3</sup>
Operating temperature	900 °C air 1,400 °C vacuum***	900 °C air 1,400 °C vacuum	900 °C air 1,400 °C vacuum
Density of layer	++	+++	+
Drying velocity	+	+	+++
Adhesion	+++	+++	++

\* Non-aerosol content, \*\*Binder decomposes at > 200 ° C, \*\*\*not on carbon surfaces

## Processing

All sprays can be applied directly from the spray can.

- Ensure good ventilation during application
- Parts to be coated should be clean, dry and grease-free and free of paint and varnish residues
- Cracking is prevented by thin layers
- Do not apply to red-hot surfaces under any circumstance
- Drying is complete when no ethanol odor is perceptible
- Light increase in temperature to 40 - 60 °C reduces drying time
- Baking is not required
- Dried layer can be polished with a smooth cloth

- Equipment and instruments can be cleaned with water

Said processing instructions are to be considered as information only, i.e. discrepancies may arise depending on application.

## Storage

- Containers must be tightly closed and protect from heat.
- Guidelines for the storage of flammable liquids must be followed
- Keep cool and dry
- Protect from frost

## Packaging

- 500 ml spray can.

## Safety

Because of the ethanol content, this product is highly flammable and thus a hazardous substance in terms of the Ordinance on Hazardous Substances.

The processing regulations and safety measures applicable to dealing with flammable liquids must be strictly followed.

For more information see the DIN Safety Data Sheet.