



EKamold® HC BORON NITRIDE SUSPENSION

EKamold® HC BORON NITRIDE SUSPENSION FOR DURABLE COATINGS

EKamold® HC is a suspension based on hexagonal boron nitride and a reactive sol-gel binder. EKamold® HC is suitable for coating metal and non-porous ceramic substrates. Surfaces coated with EKamold® HC have a highly effective, strongly adhesive, non-porous and non water-soluble release and protective film. It provides excellent corrosion protection within a wide temperature range.



EKamold® HC Boron Nitride suspension for durable coatings

Advantages

- Excellent adhesion
- Excellent protection and release properties
- Outstanding application properties at very low coating thicknesses
- Water resistant
- Fast drying

Recommendations for preparing the substrate

Metal

- For optimum results, we recommend sandblasting the surface
- Alternatively the surface can be repaired by conventional chemical methods

Ceramic

- Clean the surface with a suitable solvent

IMPORTANT:

The substrate should always be dry and free of dust and grease.

General Processing Recommendations

- EKamold® HC can be applied by spraying or dipping.
- Shake the suspension vigorously and then stir for 30 minutes with a magnetic or mechanical stirrer.
- Only use compressed air guns to spray the suspension (stir the suspension in the container)
- Spray parameters: low air pressure (< 2 bar)
- When dipping, always remove at a constant rate to ensure a homogeneous layer thickness
- Observe explosion safety precautions

Heating the coating after application

Conditions

- Dry in air for approx. 10 min. at room temperature
- Heat to maximum 300 °C to drive off the volatiles

Assessment of the coating film after cooling the substrate

- The coating must be non-porous, crack free and stable to the touch.
- If that is not the case, repeat the coating process as described above (including cleaning the part

Typical properties

Produktdaten	Werte
Color	white
Solid content (BN)	≤ 15 %
Liquid phase	Ethanol
Binder	reactive binder
Density	≤ 1,0 g/cm ³
Viscosity	low viscosity
Cross-cut test	5B*

*DIN ISO 2409 weniger als 1 % abgeplatzte Fläche

Safety

Because the product contains ethanol, it is highly flammable and therefore a hazardous material as defined by hazardous substances legislation. Always keep the workplace well ventilated. Do not smoke, and keep away open flames and sources of ignition. Do not apply to glowing hot surfaces. Always follow the processing regulations and safety measures for handling flammable liquids. See the DIN material safety data sheet for further information.

Storage

Keep the containers tightly closed and avoid high temperatures. Store in a cool, dry place. Always observe the recommendations for storage of flammable liquids.

Keep the container tightly closed to prevent the suspension from drying out.

Packaging units

PE canisters of 2.5 kg.
Larger sizes can be supplied on request.

Important note by the manufacturer

The above recommendations for processing and heating the applied layer are only intended as a guide.

The actual processing parameters may differ depending on the particular process conditions and/or application criteria.

Irrespective of this, the recommendations do not represent claims in the sense of a warranty.