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JK SD

Solvent-Based, Dippable Boron Nitride Coating for Superplastic Forming Operations

JK SD is a specially formulated solvent-based, very-low-viscosity BN coating to allow dipping onto “blanks” to yield very thin layers that can accommodate the extreme stretching of superplastic forming operations. The uniform-sized BN particles give good adhesion and lubrication over the superplastic-forming and quick-plastic-forming (SPF/QPF) cycle. The consistency of JK SD allows its use for applying thin layers by air-spray as well as dipping.

Key Attributes

- Provides lubrication over the entire SPF-QPF cycle
- Flows with the metal
- Permits easy removal/release after forming
- Minimizes coating build-up on dies
- Ideal for dipping ... OK also for air-spraying
- Solvent-based (Ethanol), Fast-Drying, Flammable

Ideal Use

- Coating metal sheets that are to be SPF-QPF processed
- For any parts that are to be coated by dipping or air-spraying

Use Notes

1. Resuspend if needed. Can dilute with Ethanol or Acetone (for faster drying) ... use for clean up also.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one thin layer by dipping or air-spray
4. Allow to dry before use

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For Industrial Use only.



Specifications

Active Ingredient	BN
Max Use Temperature	Air 1832 F / 1000 C Vac 2552 F / 1400 C Inert 3272 F / 1800 C
Use Atmosphere	All
Fired Composition (Air @700 C)	>95% BN
Liquid Carrier	Ethanol
Binder Phase	MgSiO _x
Brookfield Viscosity (cps)	15 @1/60
Specific Gravity	0.87
Color	White
Shelf Life (months)	>12
Coverage (ft ² /gal) on Metals	To 400
H F R Ratings	1-3-0
Substrate Use	All

Sizes and colors

JK SD is a white colored solvent-based paint.

Standard Size: 1 gallon Nalgene container

Also available in 5 gallon pail upon request.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL

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