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JK 41

Boron Nitride Coating for Superplastic Forming Operations

JK 41 is a specially formulated BN coating for the extreme stretching of superplastic forming operations. The uniform-sized BN particles give good adhesion and lubrication over the superplastic-forming/quick-plastic-forming (SPF/QPF) cycle. The uniformity/consistency of JK 41 is ideal for automatic/robotic air-spraying setups.

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 robotic spraying application
- Safe, Water-Based

Ideal Use

- Coating metal sheets that are to be SPF-QPF processed
- For any parts that are to be coated with automatic/robotic air-spraying equipment

Use Notes

1. Resuspend if needed. Can dilute with water.
2. Clean surfaces to be painted of any oils dirt, scale, etc.
3. Apply one thin layer by 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	>85% BN
Liquid Carrier	Water
Binder Phase	Al ₂ O ₃
Active Ingredient Level	Nearly Fully Loaded
Brookfield Viscosity (cps)	120-160 @3/60
Specific Gravity	1.1
Color	White
Shelf Life (months)	>12
Coverage (ft ² /gal) on Metals	To 400
Coating pH, typically	3
H F R Ratings	1-0-0
Substrate Use	All

Sizes and colors

JK41 is a white colored water-based paint.

Standard Size: wide-mouth 1 gallon pail.
 Also available in 5 gallon pail and 55 gallon drum upon request.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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