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BNSL Binder

Solvent-based Binder Liquid For Creating Your Own Paint

BNSL Binder is one of our most versatile suspension agent/binder liquids. With an alcohol-acetone based vehicle, it is the binder for our mainline aerosol sprays. The binder also has a medium ability to suspend solids and generally produces low to medium viscosity coatings with most refractory powders. With its non-aqueous binder liquid, BNSL not very reactive to materials. Most any powder can be used with it. It has a long shelf life and flash point of 15 F. BNSL Binder is often a preferred binder for first trials due to its utility in air environments and inertness to most powder additives.

Key Attributes

- Moderate water-resistance on ambient drying
- Moderate suspendability of 'filler' powders
- · Forms moderate-hardness coatings
- Good in all atmospheres, including air
- Minimal outgassing (H₂O, CO_x)—mostly complete by 150 C
- Dilutable with Ethanol for slower drying or Acetone for faster drying or any combination of these
- Safe, easy-to-use
- No cure needed

Ideal Uses

- Binder/Suspender
- Infiltrant

Possible Fillers

- Compatible with most everything
- Ideal for water-sensitive/reactive materials
- Consider eutectics that form low-melting situations

Use Notes

- 1. Add refractory 'filler' (<10 microns preferred)
- 2. Start at 50wt.% powder. Mix by rolling/shaking.
- 3. If too thick, add ethanol; if too thin, add powder.
- 4. Re-mix by rolling or shaking.

After making paint above, clean substrate, apply paint, dry (with no cure needed), and place into use.



Specifications

Active Ingredients	>99% MgO-SiO ₂
Max Use Temperature	1600 Ć
Use Atmosphere	All
Fired Composition/Rinder Phase	

Glassy Carbon/ Magnesium Silicate Hardness Moderate **Liquid Carrier** Ethanol/Acetone Water Resistance Moderate Ability to Suspend Solids Moderate 185 @2/60 Brookfield Viscosity (cps) Specific Gravity 0.82 Shelf Life (months) >12 Coating pH Not applicable H F R Ratings 1-3-0 Substrate Use ΑII % Volatiles 97

Safety Information

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

Sizes and colors

BNSL Binder is a cloudy liquid. Standard Size: 1 gallon Nalgene container.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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