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## Solutions for Glass Processing

### USE AREAS

#### I. Art Glass Slumping/Drape-Forming

- a. Solvent-based [BN Aerosol Lubriccoat](#) aerosol-can used for mold release as “primer” for the molds ... THE “standard” for these artisans, enabling beautiful artworks
- b. Water-based **BN Glass Release** for those who do not want solvent-based coatings
  - i. [BN Glass Release Spray](#)
  - ii. [BN Glass Release Brushable](#)
- c. Powder ... [BN Glass Release DMX Powder](#) as an instant paint for the user (just add IsoPropyl Alcohol, IPA) that ‘acts’ similar to the solvent-based BN Aerosol Lubriccoat

#### II. Specialty-Reactive Glass Melting, Casting, Processing

- a. Solvent-based [Y Aerosol](#) ... useful to 1200 C for lead or leadfree glasses
- b. Solvent-based [Y Aerosol Brushable](#) ... useful to 1200 C for lead or leadfree glasses
- c. Water-based [Zircwash](#) ... useful to 1200 C for leadfree glasses
- d. Water-based BN coatings ... useful to 900 C for leadfree glasses
  - i. [BN Lubriccoat](#)
  - ii. [BN Releasecoat PM](#)
- e. Water-based [Zypcoat YPO](#) (Yttrium Phosphate) reportedly<sup>1</sup> may be useful for “Gorilla<sup>+</sup> Glass” to 1450 C

#### III. Fiber Glass Processing, where our Releasecoat products reportedly<sup>2</sup> can reduce friction, tackiness and interfilament bonding

- a. Water-based [BN Releasecoat](#)
- b. Water-based [BN Releasecoat PM](#)

<sup>1</sup> Fisher Jr, Dale. "Phase Developments Between Xenotime (YPO<sub>4</sub>) Refractory and an Alkali Aluminosilicate Glass Melt." PhD diss., New York State College of Ceramics at Alfred University. Kazuo Inamori School of Engineering., 2015.

<sup>2</sup> Lawton, Ernest L., Robert B. Rau, and Garry D. Puckett. "Fiber product coated with particles to adjust the friction of the coating and the interfilament bonding." U.S. Patent 8,105,690, issued January 31, 2012.

### ZYP COATINGS

Our paintable coatings have been shown to be very useful and effective for glass processing areas-of-use. Generally, some experimentation is needed to determine the best coating and application techniques for glasses.