Boron Nitride Spray Primer Instructions

Boron Nitride is an anti-stick agent that works as a Primer for molds. Boron Nitride Spray can be used on ceramic molds and stainless steel molds. It works ideally for stainless steel molds because Boron Nitride Spray is a high temperature release spray; which means that the mold does not need to be heated for the Boron Nitride to adhere to the mold. Boron Nitride is best used at low temperatures under 1300° F (704°C). At higher temperatures Boron Nitride spray will become more likely to burn off, limiting its ability to protect glass from sticking to the mold.

Directions:

1. Prepare Surface: Mold surface should be clean and dry. Place mold in a well vented area and mask areas that maybe sprayed. Read MSDS (Section.8) to follow instructions about protective wear. Such as wearing respiratory, eye, and skin protection. MSDS is available at:
http://www.slumpys.com/SlumpysStore/msds/BoronNitride_MSDS.pdf

2. Shake container well. Hold can 6-8 inches away from mold surface and spray on a light coat using a sweeping motion. Let layer air dry before applying another coat. Continue until you have 3-4 light coats of primer. If priming stainless steel you should able to see the gray of the steel under the primer.

3. To clean valve after use, turn can upside down and spray for 4 seconds.

4. When the Boron Nitride Primer is dry, you are ready to use the mold or you cure it. If curing the boron nitride, set your kiln to 200°F (93°C) and hold for 20 minutes. This will make the finish hard and last longer.

5. After firing, if needed, wipe or lightly sand primer to remove any excess residue. Reapply Boron Nitride Spray when needed.

Trouble Shooting:

Why is the Boron Nitride flaking off the mold?

If the Boron was applied too heavily it will flake off when fired. Clean mold by sanding down primer. Reapply with light coats as instructed above.

The primer is on my glass, what can I do?

If the Boron was not completely dry or if the primer had been fired at a high temperature the primer may stick to the glass. You can use the same products to remove Boron Nitride as you would with typical primers, Slumpy's recommends Hotline Wash-Away (Slumpy's Item # SP-400), an acidic cleaner that is applied with a plastic scouring pad.