

*Hot glass will stick to most ceramic or metal surfaces and crack as it cools, unless prevented by a separator like Bullseye shelf primer. Careful application of our primer to shelves and molds will result in smooth, effective firing surfaces.*

#### **MIXING**

Mix one part shelf primer powder to five parts (by volume) water. Stir the mix frequently during application.

Assuming a 20 x 20" (51 x 51cm) shelf, one pound (454 grams) of dry shelf primer will make enough mix to prepare about 32 shelves with the required five coats per shelf.

#### **PRECAUTIONS**

Unless your porous shelves and molds have been kiln dried after preparation, you cannot be completely confident that they are thoroughly dry. Surfaces that feel dry to the touch can still hold moisture and, therefore, cause bubbles, glass sticking, and breakage.

Shelf primer is extremely drying to the skin. Wear thin rubber gloves to prevent chapping.

Avoid breathing shelf-primer dust. Wear a respirator approved by NIOSH for dusts and/or clean your shelves outdoors or with a good, local ventilation system.

#### **STORAGE**

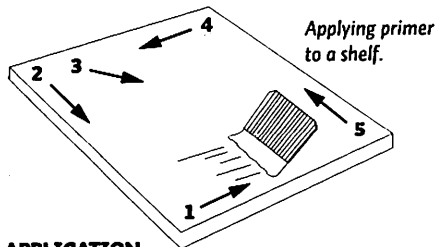
Keep the primer-powder container tightly closed and in a cool, dry place. Shelf primer that has been mixed with water will last for many weeks, if kept covered.



**BULLSEYE GLASS CO.**

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# Using Shelf Primer



### APPLICATION

Use five coats of primer on a new shelf or mold and also on subsequent applications.

For shelves and ceramic molds, apply shelf primer with a wide, natural-bristle brush. (A Chinese hake brush works well.) Brush in one direction, then at a 90° angle, and then diagonally, applying as uniformly as possible.

After applying five coats (see illustration), dry the shelf or mold in your kiln at 500°F (260°C) for 20 minutes. Mullite shelves may be fired up to temperature as quickly as your kiln permits. Take at least 30 minutes to bring ceramic molds up to temperature.

For steel, steep-sided, or non-porous molds, the liquid shelf primer can be sprayed onto the mold surface. A hand-held squirt bottle or garden sprayer will work, but an airbrush will give a smoother application. Heat the mold to 400°F (204°C) in the kiln, then remove and spray the warm mold surface with primer until it no longer dries quickly. Reheat the mold and re-spray. Repeat this process until the mold surface is thoroughly covered with primer. Metal molds with steep sides may require up to ten applications.

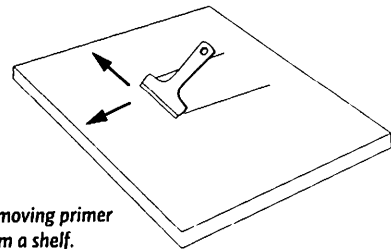
Allow shelves and molds to cool before use, to prevent thermal-shocking the glass.

### REUSE

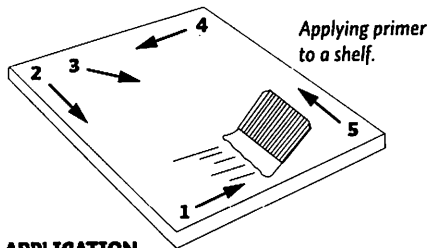
A newly prepared shelf that has not been fired (except at a very low temperature to dry it) will retain the fresh shelf-primer tint. On firing, this dye will burn out. Depending on the temperature at which you fire a shelf or mold, you may or may not need to clean and re-prepare it before your next firing.

If you are not firing over 1300°F (704°C), you can reuse shelves and slumping molds many times without reapplying primer, provided that the primer has not been scratched through.

When firing to 1300°F (704°C) and above, shelves and molds will need to be cleaned and recoated before each use. Scrape off the old primer with a wide window/tile scraper (razor type). Scraping, rather than sanding, minimizes dust. To remove primer from a contoured surface, use a Scotch-Brite pad.



Removing primer from a shelf.



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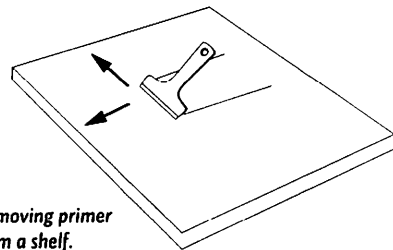
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