

## Compatibility Guidelines for Safety Coated Mobile Phase Reservoir Bottles – Tips and Suggestions

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### Overview

Safety-coated borosilicate glass mobile phase reservoir bottles provide an added layer of protection by containing fragments and solvent in the event of a break. The epoxy-based safety coating is durable under typical laboratory conditions, but it is not engineered for exposure to high heat, open flame, extreme cold, or elevated internal pressure.

Proper use ensures bottle longevity and maintains essential safety characteristics.

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### Temperature & Heat Compatibility

#### Compatible Conditions

- Dishwasher cleaning, provided the cycle stays within moderate heat ranges
- Microwave exposure, as long as temperature limits are respected
- Marking or labeling (pens, markers, tapes) — all safe for the coating

#### Not Compatible

Avoid exposing safety-coated bottles to the following, as these conditions can damage, deform, or weaken the epoxy coating:

- Dry heat exceeding 110 °C
- Open flames or direct heat sources
- Hot plates or direct burner contact
- Autoclaving above 121 °C
- Sub-freezing temperatures below -20 °C

These conditions may cause softening, cracking, or chemical instability in the coating, reducing both safety and structural performance.

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### Pressure & Impact Considerations

The safety coating is not designed to:

- Withstand increased internal pressure
- Prevent the glass from breaking when dropped

Instead, its purpose is to act as a containment system:

- If dropped and the glass breaks, the coating helps hold solvent inside
- It also minimizes glass shards from scattering

This reduces cleanup time and lowers the risk of cuts or chemical exposure.

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### Additional Notes

Click [HERE](#) for Safety Coated Mobile Phase Bottles Ordering Information



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***Please Note:** The plastic coating for mobile phase reservoir bottles is not designed for use with increased pressure in the bottles nor is it designed to prevent the bottle from breaking if dropped. The intent of the bottles is to prevent shards of glass from becoming a safety issue and to prevent the solvents from spilling onto the surface from which it was dropped. It is more of a containment system if the bottle is dropped and the glass is broken inside the plastic.*

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