

## Gel Slick® Glass Plate Coating

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### Introduction

Gel Slick® Solution is a *non-toxic*, easy-to-use alternative to standard silane based glass plate treatments (i.e. dimethylchloro-silane). Gel Slick® Solution can be applied safely at the bench. There is no need to work in a fume hood. It was created for preventing DNA sequencing gels from adhering to glass electrophoresis plates. Gel Slick® Solution can also be used in place of silane for other surface treatments (e.g. coating micro-centrifuge tubes).

### Instructions

1. If glass plates have been previously silanized, the silane must be removed before using Gel Slick® Solution. Follow the silane removal protocol.
2. Apply ~2.0 ml of Gel Slick® Solution onto the middle of one clean, dry glass plate (20 cm x 40 cm). One of the two plates should be left untreated.
3. Using a dry paper towel, spread Gel Slick® Solution evenly over the entire surface using a circular and overlapping motion.
4. Allow the coating to dry completely to a faint haze (approximately 5 minutes).
5. Remove the haze completely with soft paper towels or other soft wipes by buffing in a circular and overlapping motion. Use immediately to prevent airborne particles from depositing on the surface of the plate.

**NOTE:** One application of Gel Slick® Solution will last for approximately three electrophoresis experiments. After three runs, repeat steps 2 through 5.

### Silane Removal

1. To remove previous silanizing coatings or Gel Slick® Solution from glass plates, immerse the plates in a 2 N sodium hydroxide solution for 30 minutes.  
**Caution: Wear gloves, eye protection and protective clothing when handling sodium hydroxide.**
2. Rinse plates with cold water to remove sodium hydroxide solution. Wash with mild detergent and rinse thoroughly. Final rinse with ethanol and dry.

### Troubleshooting

- Problem:** Gel solution has difficulty entering between plates (lots of resistance) when pouring the gel.
- Solution:** Gel Slick® Solution is not completely buffed off. Follow the protocol for silane removal and treat one plate again with Gel Slick® Solution (Instructions for Use, steps 2-5).
- Problem:** Gel sticking to both plates, or partially to the second plate, in small regions of the gel.
- Solution:** Not enough Gel Slick® Solution, or Gel Slick® Solution spread unevenly over surface. Follow steps for silane removal and treat one plate again with Gel Slick® Solution (Instructions for Use, steps 2-5)

### Ordering Information

Catalog No.	Description	Size
50640	Gel Slick® Solution	250 ml

### Related Products

Long Ranger® Gel Solution

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