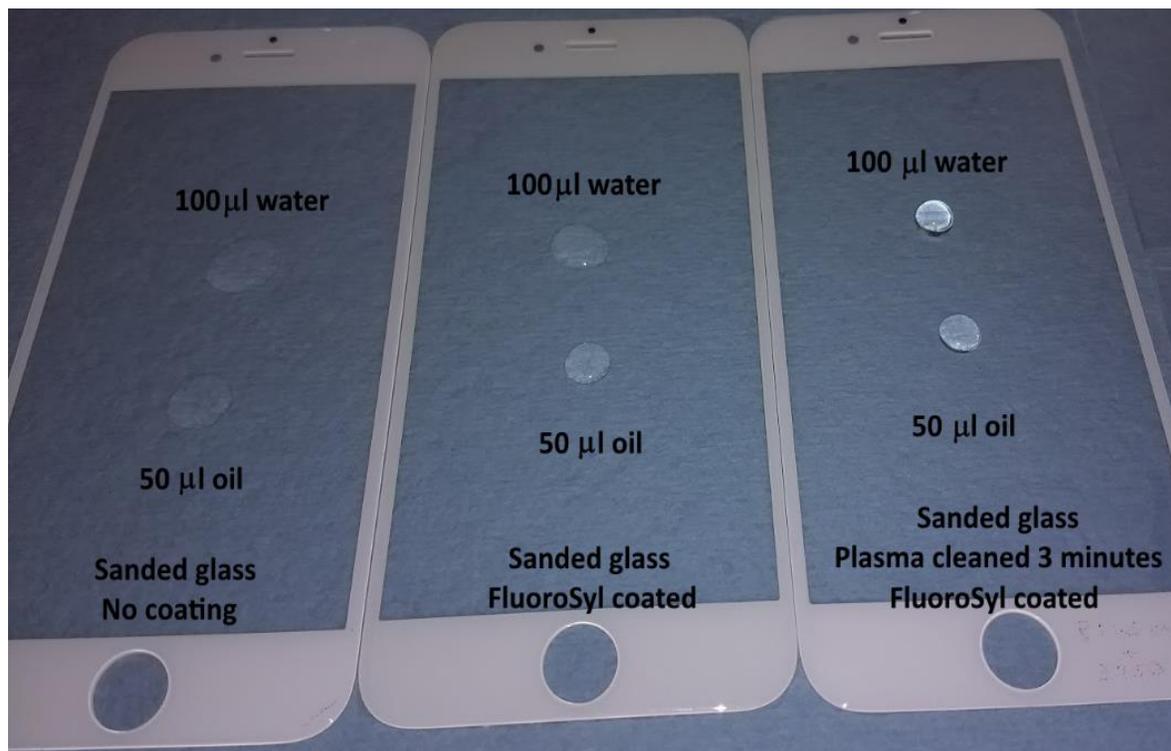


## FluoroSyl 3750Y and Hardened Glass

### Introduction

FluoroSyl 3750Y is a hydrophobic and oleophobic glass coating with great anti-fingerprint and lubricity properties. Chemically strengthened glass such as Gorilla Glass (Corning), Dragontrail (AGC) and Xensation (Schott AG) can be effectively coated with 3750Y when the glass is properly cleaned. FluoroSyl bonds to cleaned hardened-glass and produces a low surface energy, low refractive index, transparent, oil, water and stain repellent coating that is less than 10 nanometers thick.



### Hardened Glass Surface Preparation

1. Plasma cleaning: If the hardened glass is hydrophilic, plasma treatment is not required. If the glass is hydrophobic (water contact angle  $>5^\circ$ ) argon plasma treatment for 5 minutes is recommended.
2. Acid treatment. Immerse the hardened glass in 5% hydrochloric acid (HCL) for 4 hours. Rinse the glass with deionized water.
3. Water soak: Submerge the glass in deionized water for 18 hours and dry by heating at  $90^\circ\text{C}$ .

4. Apply 3750Y: Dip the cleaned hardened glass for 1 min in FluoroSyl 3750Y at 0.2% and then bake the glass at 150°C for 1.5 hours with 50% relative humidity. Vapor deposition and spraying can also be used to apply FluoroSyl 3750Y

**Coated Glass Performance (water contact angle):**

Steel Wool Abrasion Cycles	Plasma Cleaned glass	Plasma and acid cleaned glass
0	110°	110°
1000	95°	110°
2000	90°	110°
3000	90°	110°
4000	85°	110°
5000	85°	110°
6000	80°	105°

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