



Your Dreams, Our Challenge

SURECO™ AF Series is a surface coating agent containing a fluorinated polyether. Excellent water and oil repellency, as well as anti-fouling properties, are achieved without altering the appearance, by forming a thin monomolecular layer on a surface such as glass. SURECO™ AF Series is suitable for wet coating, spray coating, dip coating and spin coating.

Features

- Water and oil repellency
- Anti-fouling, anti-fingerprint
- Thin film thickness (<10nm)</p>
- Low friction
- O High durability for abrasion
- Non-flammable

Applications

- Touch panels
- Mobile phone chassis
- Mould releasing agents
- Anti-fouling for metals, plastics, etc.







Grade Range

Grade	Non-Volatile	Sample Package	Commercial Package	
SURECO™ 3320	20%	5g	100g	1kg

SURECO™ can be further diluted using a fluorinated solvent

Properties

		Unit	Value*	Remarks
Contact Angle (Water)	Initial	113	Deg. (°)	
	Abrasion Test with Steel Wool	108	Deg. (°)	1kg/2000 times
Contact Angle (Hexadecane)		68	Deg. (°)	
Friction Coefficient		0.045	Deg. (°)	OA Paper

^{*}The physical properties are typical values, not guaranteed values

Fingerprint Test

Fingerprint (not wiped) Fingerprint (after wiping once)

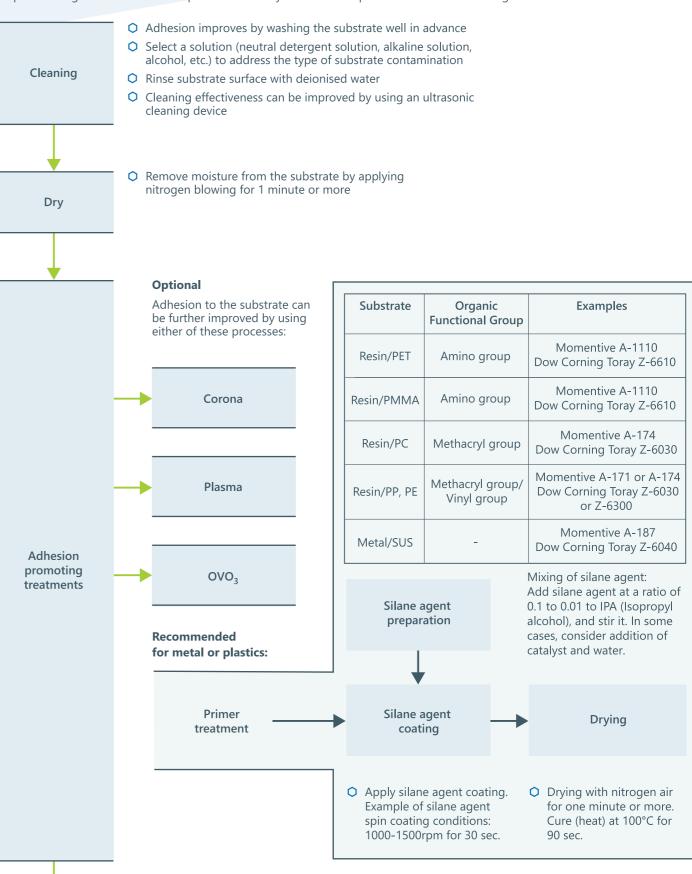
SURECO™ AF Series treated glass

Untreated glass

Application Process

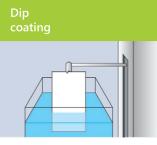
Recommended surface preparation

Proper cleaning of the surface and optional secondary treatments improve the SURECO™ coating adhesion.



Coating Process:

SURECO™ can be applied by many common coating methods:



- Equipment: Dip coater
- Pre-treatment: Alkali-cleaning -> Corona
- Immersion time:1 minute
- Pulling speed:5-15 mm/sec

Spray coating

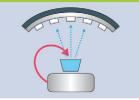


- Equipment:2 fluid nozzle spray
- O Pre-treatment:

 Alkali-cleaning ->

 Corona or plasma
 treatment
- Spray amount: 30-60g/m²

Vapour deposition



- Equipment: PVD (Physical Vapour Deposition
- Chamber base pressure 1.0~3.0x10⁻³ Pa
- SURECO™ AF thickness 10-15nm

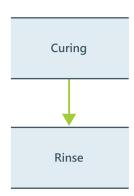
Spin coating



- Equipment:Spin coater
- O Pre-treatment:
 Alkali-cleaning ->
 Corona or plasma
 treatment
- Spin speed: 1,000rpm

Curing

The curing process of the SURECO™ coating is essential for good adhesion.



- Adhesion may not be obtained unless heating or sufficient drying is performed. Example:
 - 120°C for 10 minutes 60°C for 2 hours 25°C for 24 hours
- If the surface is uneven, optionally wipe with soft cloth, or rinse substrate with fluorine solvent (ASAHIKLIN™ AE-3000) or deodorised water

Safety

See the Safety Data Sheets (SDS) for further details regarding the safe use of this product. Fire safety, regulatory guidelines, PRTR (Pollutant Release & Transfer Register): not applicable.



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