



Eco-Friendly

**ANTI-FORGGING**

Non-Toxic

**SINOGRACE**

The Chemical Company

## UV ANTI-FOGGING COATING

### PF-410

#### PRODUCT DESCRIPTION

PF-410 is a yellowish transparent polymer functional material liquid. The main component of this product is UV hydrophilic resin, which has good adhesion on plastic substrates, and shows super hydrophilicity. The initial drop angle is less than 5 degrees; the water resistance is good, the drop angle is less than 10 degrees after soaking for 12 hours; the hardness is high, and the hardness of PMMA substrates can reach more than 4H. It has no stimulation to human body, strong adaptability and excellent construction performance.

#### FEATURES

- Strong hydrophilicity
- Good adhesion
- High hardness
- Excellent water resistance
- Good abrasion resistance
- Wide adaptability

#### QUALIFICATION

<b>Appearance</b>	Yellowish transparent liquid
<b>Density (g/cm<sup>2</sup>)</b>	0.8-1.0
<b>Coating thickness ( μ m)</b>	5-8
<b>Leveling temperature/time (°C)</b>	60°C/15min
<b>UV Curing Energy (J/cm*cm)</b>	380-450

#### APPLICATION

- PET film / PC / PMMA sheets

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**DETECTION  
METHODS  
AND  
PERFORMANC  
E INDICATORS**

Testing items	Test method	Result
Initial droplet angle	3-5 ml water, 5 s test	< 5 degrees
Dry film adhesion	Berg test	Greater than 4B
Wet film adhesion	80 degrees steam fumigated nail scratch	Scratch free
hardness	Pencil Hardness Test (Acrylic Plate)	> 4H
Water test	Soak tap water at room temperature for 12 hours	< 10 degrees
Washing experiment	Wash and dry under the tap by hand and recycle 20 times.	< 10 degrees

**HOW TO USE**

- Pre-cleaning: To ensure that the surface of the substrate is clean and free from dirt.
- Spraying process: A disposable dropper can be uniformly sprayed on the sample plate, then placed vertically, first at room temperature for 90 seconds, then 60 degrees infrared for 15 minutes, and then UV curing.
- Curing process: UV curing, energy between 380-450 J/cm\*cm.

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