

UV durable water repellent coating OPTOOL UD120

 TECHNICAL
DATASHEET

OPTOOL UD120 is an antifouling coating agent with excellent weather resistance. UD120 shows excellent performance in stain resistance, chemical resistance and surface slippery under UV exposure condition.

Characteristics

- Excellent water and oil repellency
- Good anti finger print property
- Maintain excellent water and oil repellency with superb UV resistant
- Super thin film coating and no impact for optical properties
- Reduce sliding contact angle
- Non-stick and low surface energy
- Cures with Glass, SiO₂ and AR surface in the room temperature

Typical Properties (*1)

The following data was measured on UD120 coated Gorilla Glass surface.

Test item	Unit	OPTOOL UD120	Competing Fluorine coating
Water contact angle	°	115	109
Critical surface tension	mN/m	13	-
Sliding angle of water	°	8	28
Sliding angle of n-hexadecane	°	6	25
Tendency for fingerprint transfer	-	Better	Fair
Cleanability	-	Excellent	Fair
QUV durability (*2)	h	600	150
Steel wool abrasion durability (*3)	cycle	12000	10
COF (*4)	-	0.07	0.10
Haze	-	0.24	0.24

(*1) Typical properties are not suitable for specification purposes.

(*2) Irradiation time to keep water contact angle above 100 degrees.

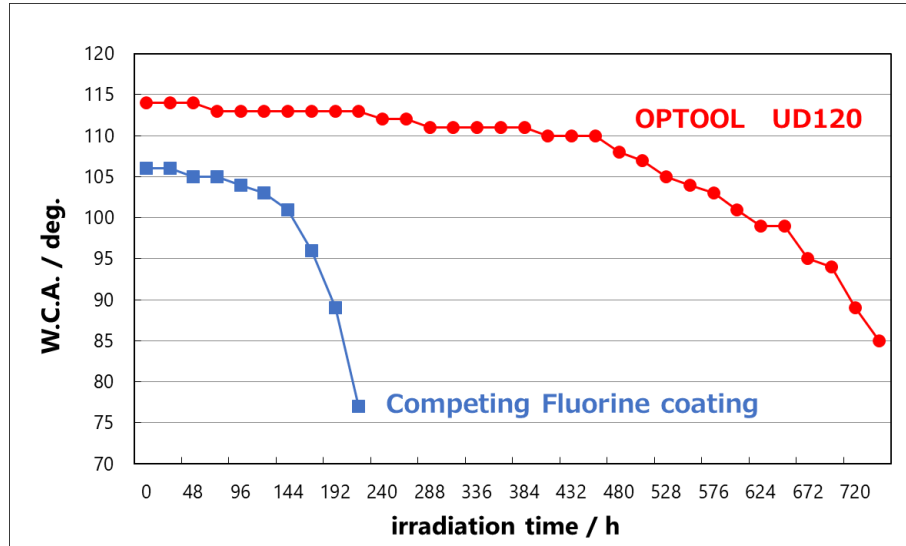
UV source: UV-B313, Irradiance (@313nm):0.63W/m²

(*3) Maximum rubbing cycles to keep water contact angle above 100 degrees.

Conditions: Steel wool #0000, Load: 1kgf/cm², Stroke: 6cm, Speed: 60rpm

(*4) Equipment: LabthinkFPT-1, Load: 200g, Speed: 200mm/min, friction material: paper

Accelerated Weathering Test



Handling and Safety Information

- Be sure to read the notes on SDS and labels before use.
- This product is intended for general industry, and therefore its adequacy and safety as a raw material for medical purposes cannot be guaranteed.

Package

- 100g

For more information, visit our website.

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