

VISIODRY PRO®

Superhydrophobic treatment

VISIODRY PRO® is a high-performance anti-rain spray that can be applied to all optical and optronic surfaces, guaranteeing perfect images and vision unaffected by adverse weather conditions (rain, snow).

VISIODRY PRO® is the only superhydrophobic and transparent product on the market : water droplets bounce off surfaces without ever wetting them.



NON-TREATED

TREATED

	Hydrophobic	Superhydrophobic VISIODRY PRO
Water Contact Angle (WCA)	<110° 	>155° 
Tilt Angle <i>(inclination of which the drop falls from the surface)</i>	>50°	<5°
Speed of movement necessary to be effective	>50km/h	Effective even when stationary
Fog Removal	Ineffective	Effective
Drying trace	The loaded drops (salt, sand, mud) dry by leaving traces	Drops bounce off the surface without having time to dry - no traces

© APPLICATIONS

VISIODRY PRO® is effective against water, salted water, rain, fog, snow and mud. It can be applied on the following surfaces :

- Advanced Optical systems (camera, counter UAS)
- Surveillance cameras
- On-board cameras (drones, robots, vehicles)
- Safety glasses and goggles
- Helmet visors
- Vision binoculars
- Screen controls



⑤ TECHNICAL SPECIFICATIONS

Superhydrophobicity : Water droplets bounce off and roll off the surface, which remains dry at all times. The water contact angles (WCA) are greater than 155°, and the angle of inclination relative to the horizontal required to remove water droplets is less than 5°.

Transparent : VISIODRY PRO® coating does not create image distortion. VISIODRY PRO does not generate haze (< 1%), or absorbance in visible and IR range, its general optical transmission SWIR + VIS is ≥ 98%.

Durability : VISIODRY PRO® remains effective for over a month when used outdoors, and withstands several days' immersion in both fresh and salt water. The coating can be removed from the surface by wiping. VISIODRY PRO can be reapplied as often as necessary.

Suitable for all types of surfaces : inorganic (glass, SiO₂, germanium, sapphire), organic (PMMA, PE, PP, PC, PET, PU) and metallic (steel, aluminium, titanium, etc.).

⑤ PHYSICO-CHEMICAL PROPERTIES

Surface Tension	15+ / -2 dyn.cm ⁻¹
Aspect	Opalescent
Flash Point	None
Boiling Point	76°C
Freezing Point	-138°C
Density at 25°C	1.5
Ozone Depletion Potential	0
Global Warming Potential	55
Flash point	Non-flammable
Temperature stability	-40°C / +55°C



Volume : 20mL
Surface : 1m²

Volume : 50mL
Surface : 2,5m²

⑤ INSTRUCTIONS FOR USE

VISIODRY PRO® is simply sprayed onto the surface, producing a superhydrophobic, transparent coating.

1. Clean the surface with a dry microfiber.
2. Apply the product on a dry surface.
3. Spray VISIODRY PRO® at a distance about 5-10cm to cover the surface with an uniform layer
4. Allow to air dry. The surface is superhydrophobic in less than 60 seconds.

⑤ PRODUCT INFORMATIONS

- Available in 20mL or 50mL spray
- Made in France product, patented by Surfactis Technologies
- VISIODRY PRO® has been validated by THALES on ANTARES cameras used on French Army armoured vehicles
- For more information, visit : www.surfactis.com/fr/produits/visiodry-pro/

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