

Nano Coatings

PF-201 Water based textile self-cleaning nano coating

DESCRIPTION

PF-201 is a revolutionary non-toxic super hydrophobic and oleophobic nano coating. It is water-based, breathable and bio-compatible. In addition, it is resistant to harsh detergents and demonstrates excellent self-cleaning properties with continuous performance up to 30 washes.

TYPE

Textile self-cleaning nano coating

KEY

FEATURES

- Non-toxic
- Contact angle of 150 °
- Easy-to-clean effect
- Lasts up to 30 washes
- Inhibits the growth of bacteria
- Super hydrophobic and oleophobic properties
- Does not affect the feel of the fabric and breathable
- Washing and cleaning agent resistance up to 20~30 washes

TYPICAL

PROPERTIES

Appearance	Yellowish clear liquid
pH (50% in water)	3.0-5.0
Density (g/cm³ at 20°C)	1.05 ±0.03
Viscosity (mPa s at 20°C)	1-10
Dry time (h)	24
Consumption (ml/m²)	30-300 (depending on the substrate)

APPLICATION

- Fabric, Textile, Cotton, Wool, Polyester fabric, Suede/leather corduroy etc.

Surface Preparation: Textile must be completely free of all contaminants including detergents and fabric softeners. To rid of contaminants, use hot water on a spin cycle. Textile must be completely dry before coating.

Application: Completely saturate fabric by spray or dip application.

Cure Time: About 24 hours. Cure can be accelerated with heat up to 150°C.

Up to 30 washes: You have to add crosslinker and cure it under 150°C more than 5 mins.

Note: Tested up to 30 washes in ideal laboratory conditions. Recommended care is washing in hot water with no detergents or



Eco-Friendly

NANO COATINGS



Non-Toxic

SINOGRACE

The Chemical Company

fabric softeners to keep the hydrophobic effect. If a detergent has been used, it is important to rinse fabric with hot water to restore performance of coating.

STORAGE

AND

HANDLING

- Available in 5L/barrel or 25L/barrel
- Store products in tightly closed original containers at 5-35°C
- Shelf life: 18-24 months from delivery date
- According to non-dangerous goods transport



Eco-Friendly

Water-based & Solvent-free



Saves Water

Reduce Wash Cycles



Does not alter appearance

125 nanometers thick = more than 800 times thinner than a human hair



Super-Hydrophobic

Water contact angles exceed 150° with roll-off angle hysteresis is less than 10°



Stays Clean

Stain Blocker



Breathable

Does not trap odor or moisture



Reduces Odor

Reduces odor emitted from moist surfaces



Non-Toxic

Chemically inert & bio-compatible

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