



# EXOCOAT 151A (Development Product)

Nano Titanium Oxide Sol

Product Data Sheet

### General Information

EXOCOAT 151A is a doped Nano-Titanium oxide with a strong self-cleaning performance.

### Description and Application

EXOCOAT 151A is a photocatalytic nano titanium oxide which renders substrates into self-cleaning walls. The photocatalytic effect results in effective radical formation which breaks down organic matter like dirt and soil. Airborne particles like VOCs, NOx and microbes are also eradicated by EXOCOAT 151A.

EXOCOAT 151A coated walls are super-hydrophilic enhancing the water-sheeting, also called wash off effect. EXOCOAT 151A has a very low activation barrier and will function under visible light. Important is that EXOCOAT 151A is used as topcoat to ensure its full effect. Its effectivity is based on radical eradication of all organic components as well as NO<sub>x</sub>.

EXOCOAT 151A may be used on flat surfaces such as plastics or coated substrates preferably interior. Spray application is recommended to reach, thin monolayers which proof to be more effective.

### Features:

- Water-based nano-TiO<sub>2</sub> sol
- Improved wetting feature low energy surfaces like plastics and coating layers
- High efficiency
- Quick drying under room temperature
- Drying from room temperature up to 300°C.
- Superhard particles (1GPa Vickers)

### Example of application:

- Self-cleaning topcoat over primer or plastics

### Usage instructions

- Air mix pressure spraying
- Dipping
- Rolling

### Specifications

Active content:	1.0%
PH:	7.5-10
Particle size	8nm
Density:	1.00-1.01g/ml

### Physical Properties

Appearance:	Clear liquid
Crystal structure:	Anatase
Particle size	8nm

EXOCOAT 151A is registered in the following inventories:

- CAS, EINECS, TSCA, AICS, CEPA, MITI

### Storage

9 months in original container under 5-45 °C, dark condition

### Transportation

No transport danger in air, sea, highway and rail transportation

*Think about your impact on the environment: reduce, reuse or recycle! Contact Axcentive if you feel we could be of help.*



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