



EXOCOAT 151A

Modified Nano Titanium Oxide Sol

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 bio pollution are also eradicated by EXOCOAT 151A. It can be used as general air purifier.

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_x. EXOCOAT 151A may be used on flat surfaces such as glass or mineral substrates outdoors. Indoors walls, painted surfaces and plastics may be coated with EXOCOAT 151A. Spray application is recommended to reach, thin monolayers which prove to be more effective.

Features:

- Water-based nano-TiO₂ 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 topcoats
- Air purifying coating for interiors

Usage instructions

- Conventional spray
- 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:	Yellowish slightly opaque liquid
Crystal structure:	Anatase
Particle size	Typical 8nm

Regulatory

EXOCOAT 151A complies with the EC Regulation 1907/2006 (REACH) and is registered in the following inventories:

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

Packaging

250ml, 2L, 5l

Storage

12 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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