Technical Datasheet
Air Balance Pro

TiO_2 Photokatalyst – breaks down pollutants with light

Areas of Application

Air Balance Pro can be used:
For indoor spaces to reduce pollutants, air contaminants and odors.

Chemical and Physical Properties

Air Balance Pro is TiO2 without pigment properties. It catalyzes the breakdown of organic molecules when exposed to UV and artificial light. It is a ready-to-use, colorless, transparent coating with a surface-enhancing effect. The pH values range between 3 and 14.

Product Properties/Efficacy

The basis of the **Air Balance Pro** process is photocatalysis. Titanium dioxide (TiO2) is a semiconductor; light generates electron-hole pairs in it when the energy of the photons is greater than the band gap Eg (internal photoelectric effect). The electrons can reach the surface of the titanium dioxide, generating radicals that break down organic substances. In particular, the hole pairs have a high oxidative effect; OH radicals are formed from water. Organic substances are thereby decomposed, with the end products being CO2 and water. The special doping allows the system to exhibit photocatalytic action under artificial light with a wavelength range of 380nm to 780 nm, to break down e.g. solvents, plasticizers, ketones, esters, and alcohols.

Substrate Preparation/Processing

The application can be carried out with a roller, brush, HVLP or airless spray systems. The substrate must be free of dirt, organic growth, dust, and oily or greasy contaminants before treatment with **Air Balance Pro**. Use only on intact and undamaged surfaces. Please test small sample areas to check compatibility!

Consumption: 30-50 ml/m², depending on absorbency
Application temperature: +5°C to +40°C
Drying time: 24 hours

Packaging/Shelf Life/Storage

Packaging: 1-liter bottle, 25 kg drum
Shelf life: 1 year when stored properly
Storage: Store in a well-ventilated area. Keep it cool

Safety/Labeling/Toxicology

For detailed information on toxicology, ecology and the proper use and labeling of **Air Balance Pro**, please refer to the safety data sheet.

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