




Photocatalyst - breaks down pollutants with light


Areas of application

For indoor use to break down pollutants, air pollution and odours.

Chemical and physical properties



PUR  WALL catalyses the breakdown of organic molecules with irradiation with UV and artificial light. It is a ready-to-use, colourless and transparent coating with a surface-enlarging effect.

Product properties / effectiveness


The **PUR  WALL** method is based on photocatalysis. Light produces electron-hole pairs in the semiconductor when the energy of the photons is greater than the band gap (Eg) (inner photocatalytic effect). The electrons can reach the surface in the semiconductor and produce radicals there which cause the decomposition of organic substances.

The hole pairs in particular have a high oxidative effect; OH radicals are formed from water. This decomposes organic substances; the end products are CO₂ and water. The special doping of the semiconductors allows the system to work photocatalytically under artificial light with a wave range of 315 to 780 nm.


Surface preparation / processing

PUR  WALL is applied undiluted with a roller, a brush or an airless spray system. Prior to treatment with **PUR  WALL**, the surface must be free from dirt such as organic growth, dust and oily or fatty dirt. Only use on intact and undamaged surfaces. Please test small sample areas to check suitability!

Surface to be coated

Around 1/3 of the total wall surface in the room should be coated so that **PUR  WALL** functions correctly. In general, it is enough to just coat the ceiling with a room height of 2.50 m.

Safety / labelling / toxicology

Detailed information on toxicology and ecology as well as regarding intended use and labelling of **PUR  WALL** can be found on the safety data sheet on our homepage in the Download area.



Brush



Roller



Airless - spray - system



Consumption: 20 - 35 m²/liter



**Working temperature:
+5°C to +40°C**



Drying time: 24H



Color: transparent



Art.-No. 5003 **PUR  WALL** 0,5 Liter



Art.-No. 5001 **PUR  WALL** 1 Liter



Art.-No. 5002 **PUR  WALL** 5 Liter

Packaging / shelf life / storage

Shelf life:

Unopened 1 year when stored correctly.

Storage:

Store in a well-ventilated location. Store in a cool place.