

Standard Type Harmless Water-Soluble Coating



光触媒工業会
 認定:2019-0002
 空気浄化(アセトアルデヒド)
 空気浄化(ホルムアルデヒド)
 抗ウイルス
 PIAJ Certification
 "Air Purifying (formaldehyde)"
 "Air Purifying (acetaldehyde)"
 "Anti-Viral"

Top coat for Interiors "PALCCOAT VLAG" (visible light responsive powerful antibacteria type)

- This strongly reacts to room lighting (visible light) resulting effective in sterilization, deodorization, and air purification.
- Silver ion has been added so that the deodorization function can be maintained even during the night.
- In addition to interiors, this can be used as a topcoat for exterior walls that receive thin light.

Product Name	PALCCOAT VLAG		
Photocatalyst Type	Titanium oxide material, Silver ion.		
Photocatalyst Processed Portion	Coating material		
Effect of the Photocatalyst	Measurement method is according to J I S R 1 7 0 1 - 2		
Air Purification Effect: Ultraviolet Light (Acetaldehyde)	Certified Base Material	Fiber	
	Amount of Acetaldehyde Removed *1	1.37μmol/h	Using this product in an area of 1m2 per 1m3 of room volume can be expected to reduce acetaldehyde in the room air by 45% during the day.
Air Purification Effect: Ultraviolet Light (Formaldehyde)	Measurement method is according to J I S R 1 7 0 1 - 4		
	Certified Base Material	Fiber	
	Amount of Formaldehyde Removed *2	0.45μmol/h	Using this product in an area of 1m2 per 1m3 of room volume can be expected to reduce acetaldehyde in the room air by 21% during the day.
	Measurement method is according to J I S R 1 7 5 6 film adhesion method		
Antiviral Effect: Visible Light*3	Certified Base Material	Glass/Ceramics	
	Antiviral effect when exposed to light*4 (For bacteriophage Qβ)	The antiviral activity value is 3.3	The antiviral activity value by light irradiation is 0.7
	Antiviral effect in the dark place*4 (For bacteriophage Qβ)	The antiviral activity value is 2.6	
	Test Conditions	[Activity during light irradiation] Visible light illuminance 500 lx (irradiation time 4 hours) The Photocatalyst Industry Association of Japan defines 500 lx as a general indoor illuminance. *5 [Activity in the dark place] (storage time 4 hours)	
Setting the Standard Validity Period for Performance	No settings		
Location Used	[Air purification effect: UV] The interior of a house or building where sunlight enters through the window. [Antiviral effect: visible light] When there is general indoor light, the photocatalyst works to produce a stronger antiviral effect. The antiviral effect of silver ions is exhibited even in the dark.		
Safety	Acute oral toxicity, primary skin irritation, and mutagenicity have been confirmed to meet the safety standards set by the Photocatalysis Industry Association of Japan.		
Cautions for Usage	[Air purification effect: UV] If the surface is excessively soiled, it will not be effective, so regular cleaning is recommended. Also, the actual effect depends on the area where this product is used, the intensity of the ultraviolet light irradiated to this product, the volume of the room where it is used, and the ventilation rate of the room where it is used. [Antiviral: visible light] If the surface is dirty, a sufficient antiviral effect cannot be obtained, so regular cleaning is recommended.		
<p>*1 According to the certification criteria set by the Photocatalysis Industry Association of Japan is acetaldehyde removal amount of 0.17 μmol / h or more. This value is the amount of acetaldehyde removed per 50 cm2, and the higher this value is the effect of reducing acetaldehyde in the room.</p> <p>*2 According to the certification criteria set by the Photocatalysis Industry Association of Japan is formaldehyde removal amount of 0.17 μmol / h or more. This value is the amount of acetaldehyde removed per 50 cm2, and the higher this value is the effect of reducing acetaldehyde in the room.</p> <p>*3 In the Photocatalyst Industry Association of Japan, "photocatalyst antiviral" refers to "a state in which virus activity is suppressed on the surface of the photocatalyst". The antiviral effect of photocatalyst can be expected to be effective against viruses in general, but it is not guaranteed to be effective against all viruses or specific viruses. In addition, it does not indicate the preventive or therapeutic effect of disease.</p> <p>*4 The certification standard of the Photocatalyst Industry Association of Japan is that the antiviral activity value is "2.0" or more, and the antiviral activity value by light irradiation is "0.3" or more. An antiviral activity value of "2.0" means that the number of active viruses is reduced to 1/100 due to the antiviral effect, and "3.0" means that the number of active viruses is reduced to 1/1000. In addition, the antiviral activity value by light irradiation of "0.3" means that the number of active viruses by light irradiation is about half of the number of active viruses under conditions without light irradiation.</p> <p>*5 Specified according to the visible light irradiation conditions of JIS R 1752. For the illuminance of visible light indoors, please refer to "Photocatalyst Information / Illuminance of Visible Light Indoors" on the Photocatalyst Industry Association of Japan website.</p>			

*Expressed according to the guidelines set by the Photocatalysis Industry Association of Japan.