PALCCOAT®

Standard Type Harmless Water-Soluble Coating

PIAJ Certification

"Self-Cleaning"
"Air Purifying (acetaldehyde)"
"Anti-Bacteria"

Topcoat for Exterior & Interior : "PALCCOAT ST"

- This can be used as a topcoat for various exterior walls such as coated surfaces and plasterwork.
- The undercoating is not needed for inorganic materials such as tiles.
- It can be used as an indoor top coat as well.

The PIAJ mark is the certification mark given to photocatalyst products that meet standard values. PALCCOAT ST acquired the following PIAJ mark for "Self-Cleaning", "Anti-Bacteria", "Air Purifying (acetaldehyde)" performance.

Product Name	PALCCOAT　ST			
Photocatalyst Type	Titanium oxide material			
Photocatalyst Processed Portion	Coating material			
Effect of the Photocatalyst				
Self-Cleaning Effect: UV	Measurement method is according to ＪＩＳ　Ｒ１７０３－１ and ＪＩＳ　Ｒ１７０３－２			
	Certified Base Material	Glass / Ceramics		
	Contact Angle *1	Less than 5°	This is the index for dirt breakdown performance.	
	Decomposition Activity Index *1	12.6	This is the index for dirt breakdown performance.	
	Certified Base Material	Resin		
	Contact Angle *1	11.7°	This is the index for dirt breakdown performance.	
	Decomposition Activity Index *1	24	This is the index for dirt breakdown performance.	
Antibacterial Effect: UV	Measurement method is according to ＪＩＳ Ｒ １７０２			
	Certified Base Material	Glass / Ceramics		
	Antibacterial Effect *2	Escherichia coli	Antibacterial activity value: 3.8	Light irradiation effect: 2.6
		Staphylococcus aureus	Antibacterial activity value: 3.8	Light irradiation effect: 2.8
	Test Conditions	UV intensity 0.25 mW/cm2 (This condition corresponds to near the window in the daytime.)		
Air Purification: UV (acetaldehyde)	Measurement method is according to ＪＩＳ Ｒ １７０１－２			
	Certified Base Material	Glass / Ceramics		
	Amount of Acetaldehyde Removed *3	1.60μmol/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 48% during the day.	
Setting the Standard Validity Period for Performance	Self-Cleaning: Available: Confirmed by the company. Antibacterial Effect, Air Purification: No settings.			
Location Used	Self-Cleaning: Outdoors Antibacterial: Outdoor, near the window where sunlight enters in the daytime Air purification: The interior of a house or building where sunlight enters through the window			
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	If too much dirt is attached to a surface self-cleaning and antibacterial effect cannot be achieved, so regular cleaning is recommended.			

*1　According to the certification criteria set by the Photocatalysis Industry Association of Japan, the contact angle should be 30° or less, with a smaller contact angle indication better performance. Certification requires a decomposition activity index of 5nmol/L/min or higher, with a higher index indicating better performance.
*2　According to the certification criteria set by the Photocatalysis Industry Association of Japan, the Antibacterial activity value should be "2.0" or more, and the effect of light irradiation is "0.3" or more. An antibacterial activity value of "2.0" means that the number of bacteria is reduced to 1/100, and "3.0" means that the number of bacteria is reduced to 1/1000.In addition, the effect of light irradiation is "0.3", which means that the number of bacteria has been reduced to about half by irradiationed light compared to the under the condition of not exposing light.
*3 The certification standard of the Photocatalyst Industry Association 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.

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