

ABSTRACT

PHOTOCATALYTIC PAINT

5 Disclosed is a photocatalyst that has excellent elasticity. In particular, the disclosed photocatalytic paint ensures the adhesiveness of a base and a photocatalytic layer, even when cracks form in the photocatalyst coating due to seasonal variations in the temperature of the coating surface, and considerably suppress the propagation and
10 development of these cracks in both the surface and the base. The disclosed photocatalytic paint is provided with a base, a photocatalytic layer that includes the photocatalyst, and an intermediate layer that is provided so as to be interposed between the base and the photocatalytic layer and in contact with the underside of the photocatalytic layer. The
15 intermediate layer includes a resin component, which has a silicone component and a flexible non-silicone component. The loss tangent of the intermediate layer at 25 °C, measured by a solid-matter viscoelasticity measuring device, is between 0.2 and 1.5. At least one spectral peak of the temperature change curve of the loss elasticity ratio, which is measured by a solid-matter viscoelasticity measuring device
20 that is based on JIS K7244-4 for the intermediate layer, is greater than -80 °C and up to 30 °C.

No suitable figure