



Photocatalytic Coating

A coating technology to create a self-cleaning surface

Ohno Group
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Since 1947, Ohno Group works in the petroleum and automobile industry. Today the group works in various fields including the environment technology. The Group utilised its experience with customer needs and its know-how in chemical industry, and developed a self-cleaning photocatalytic coating technology.

Ohno Group developed a photocatalytic coating technology that creates an extremely hydrophilic and photocatalytic surface. Hydrophilic property enhances the natural cleaning process during a rain event while photocatalytic property generates activated oxygen species upon exposure to UV. These activated oxygen species oxidise the organic deposits (including microorganisms) and NOx SOx species. The technology has a wide variety of applications indoor and outdoor. The nano-sized photocatalytic particles generate a uniform and homogeneous layer of approximately 1µm.

One of the example applications particularly economic is the use on solar panels. The coated panels prevent the decrease in electricity generation due to dirt deposits, and generally increase the electricity production by 5%.

