



Car Parks

Car parks and road tunnels are two environments where air pollution significantly affects the users of these infrastructures as well as the people working there.

Pollutants mainly come from vehicles' exhausts and can also be conveyed into the car park from the surrounding area. Treating the appropriate surfaces in a tunnel or car park with photocatalytic materials enables significant reduction of the air pollution.

Photocatalytic materials have other functionalities that provide added value to these infrastructures. Being hydrophilic, a photocatalytic surface is cleaned more easily than a regular one.

The self-cleaning activity would help in keeping the coated surfaces cleaner for longer periods. CristalACTiV™ technology was tested in representative field test trials to confirm the laboratory findings on the developmental products.

A trial using paint from Pacific Paints (Boysen), containing CristalACTiV™ photocatalyst, was conducted in a car park in Manila, Philippines.

- The interior walls and the ceilings were painted with this photocatalytic treatment for a total surface of nearly 9,000 m²
- Six months of data on pollutants level trends were gathered and analyzed by our statisticians
- Despite the relatively low lighting in the car park, at least 1.9 kg NO_x are removed per year, 22 g removed per 100 m² per year
- A surface of only 100m², painted with KNO_xOUT™ containing CristalACTiV™ photocatalyst, removes in one year the NO_x emitted by a diesel car driving more than 130 km*

For more information about the photocatalytic properties of CristalACTiV™ TiO₂, contact: crystalactiv@tronox.com
Visit us at our website: www.crystalactiv.com



Manila car park trial – photos courtesy of Pacific Paints



* Calculation made on an average vehicle respecting Euro 4 emissions regulations

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