

NEWS RELEASE

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Canon Optron develops three new PHILICFINE HP-series hydrophilic coatings with improved durability for outdoor applications



A surface with and without PHILICFINE HP-2 applied

IBARAKI, Japan, July 26, 2017—Canon Optron Inc. announced today in Japan that the Company has developed three new PHILICFINE HP-series hydrophilic coating products that feature improved durability for outdoor applications: PHILICFINE HP-1, PHILICFINE HP-2 and PHILICFINE HP-3. With this new series of coatings, each with specific characteristics—including weather resistance, abrasion resistance and residue resistance—Canon Optron offers coating products that meet the needs of a wide range of customers.

Benefiting from Canon Optron’s proprietary hydrophilic coating technology, these coatings inhibit the cohesion of water molecules so that water will dilute, spread and flow off of the coated surface.

PHILICFINE HP-1 provides the highest abrasion resistance of the three products, PHILICFINE HP-2 offers higher weather and salt resistance than PHILICFINE HP-1 while maintaining high hydrophilicity and PHILICFINE HP-3 has the highest weather resistance of the three coatings and also minimizes residue after air drying*.

The PHILICFINE HP series uses a calcium phosphate ceramic deposition material that enables outstanding hydrophilicity in low-light environments and outdoor settings where photocatalysts and organic materials suffer from subpar performance. Unlike photocatalysts, these coatings do not require sunlight for surface activation and, unlike organic materials, do not deteriorate significantly when exposed to ultraviolet light.

The PHILICFINE HP series coatings can be applied to various materials, including glass, plastics and metals. Canon Optron envisions such applications as coating sunglasses and mirrors, where drops of water cause visibility problems, as well as for Petri dishes and other scientific apparatus.

The PHILICFINE HP-1, HP-2 and HP-3 coatings will go on sale in Japan on August 1, 2017.

* For more information about the differences in performance of the three products, please see the product website: <https://www.canon-optron.co.jp/english/evaporation/pickup04.html>.

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