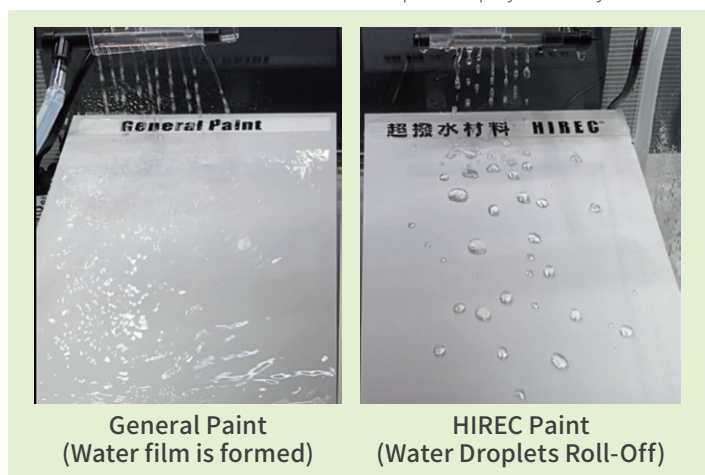
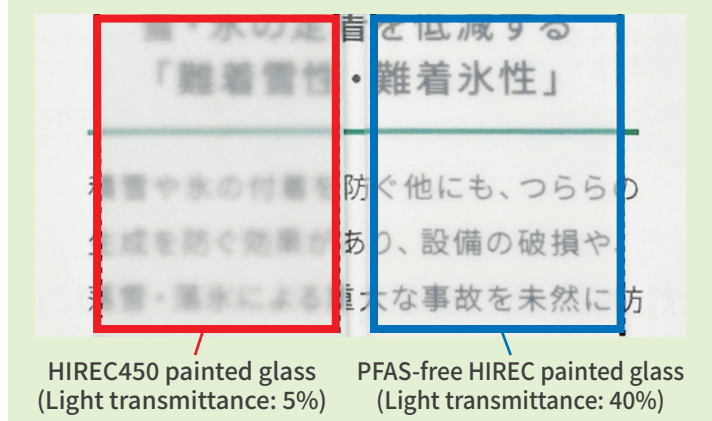


Newly developed PFAS*-free paint, Fluorine contained paint with unique functions, and more! Wide range of products to meet customer needs.

*PFAS: per- and polyfluoroalkyl substance



The PFAS-free type is significantly more transparent than conventional products.



HIREC is not only incredibly water repellent with over 150 degrees of initial contact angle, but also has the effect of preventing snow and ice accretion. It has the convenience of being super water repellent with the same application method as general paints HIREC will protect your equipment from breakdown or accident cause by rain, snow, or ice in advance.

POINT

1

New series that achieves PFAS-free performance while maintaining the same level of water repellency

POINT

2

PFAS-free series with greatly improved light transmission

POINT

3

Fluorine-based series with ultra-water repellency for approximately three years, even outdoors

With consideration for PFAS concerns, this product is non-fluorinated. Even though this product is PFAS-free, it has achieved the same level of super water repellency as the conventional products.

PFAS-free HIREC has significantly improved light transmittance compared to conventional HIREC. Visible light transmittance is approximately 40% which will greatly help expanding the range of applications where HIREC can be applied.

Fluorine-based HIREC has a unique self-cleaning function that prevents performance degradation caused by buildup of atmospheric dirt and maintains super water repellency for approximately three years, even outdoors.

Super hydrophobic coating, HIREC products and their features

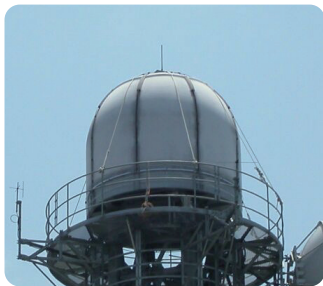
We offer a wide range of HIREC products, including PFAS-free products, products with self-cleaning function, and water-based products. Customers can choose the most suitable product for their environment and applications.

	Contact Angle of Water Droplet	PFAS Yes/No	Self-Cleaning Function Yes/No	Solvent-Based or Water-Based	Container	Primer	Light Transmittance	Painting Method	Recommended Thickness
HIREC-R	$\geq 150^\circ$	Yes*	Yes	Solvent-Based (Dedicated Thinner)	Paint Can (1kg/10kg)	Dedicated Primer	None (White)	Air Spray/Brush/Roller	30 μ m (Primer:30 μ m)
HIREC-RAS	$\geq 150^\circ$	Yes*	Yes	Solvent-Based (Diluted)	Aerosol Can (220mL)	Not Required	None (White)	No Tool Required	30 μ m
HIREC PFW9	$\geq 150^\circ$	No	No	Water-Based (Diluted)	Paint Can (1kg/10kg)	Not Required	approx. 40%	Air Spray/Brush/Roller	15 μ m
HIREC PFS10	$\geq 150^\circ$	No	No	Solvent-Based (Diluted)	Paint Can (5kg/10kg)	Not Required	approx. 40%	Air Spray/Brush/Roller	15 μ m

May require additional undercoating or any other tool/step, and the paint may not be applicable depending on the material of application to be coated or environment of use.

*Even HIREC-R and HIREC-RAS which contain PFAS, do not contain any of the so-called "specified PFAS" regulated by the Stockholm Convention on Persistent Organic Pollutants (POPs). The effects of PFAS on the human body and the environment remain largely unknown, and there is considerable debate around the world. NTT-AT has developed completely new PFAS-free HIREC products (HIREC PFW9, HIREC PFS10) as the first step in responding to the needs of customers concerning about PFAS.

Application Examples



Radomes



Antennas



Camera Housings



Wind Turbines



Bridges



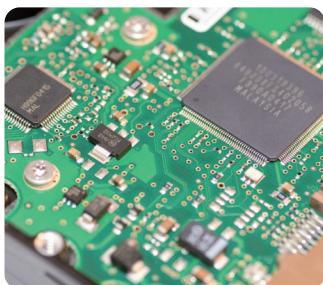
Highway Side Walls



Sensors for Railways



Guide Rails of Monorail Tracks



Electronic Boards



Snow Guard Nets



Transmission Towers/ Insulators



Signs/ Displays

Notes:

* "HIREC" is a trademark of NTT Advanced Technology Corporation, registered in Japan, U.S. and European Patent and Trademark Office.

* Company names, product names, etc. which were indicated are the trademark or registered trademark of each company.

* Contents of this catalog may be subject to change without prior notification.

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NTT ADVANCED TECHNOLOGY CORPORATION



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* "NTTGXInno" is a registered trademark of NTT Corporation.

NTTGX is an abbreviation for "NTTGX (Green Transformation) X Innovation," and through providing solutions to society, this initiative will bring about innovation in the GX field and contribute to the realization of carbon neutrality by 2050.