

NTT-AT Launches HIREC-RAS, a New Super hydrophobic Material

HIREC-R Aerosolized for Easy Painting in a Spray Can

September 2, 2025

NTT ADVANCED TECHNOLOGY CORPORATION (NTT-AT, Headquarters: Shinjuku-ku, Tokyo, President: Tadashi Ito) has started selling HIREC-RAS, a super hydrophobic material. HIREC-RAS is a spray can-type aerosolized version of HIREC-R with self-cleaning function. HIREC-RAS is one of the HIREC® series used in a wide range of fields for the safety and maintenance of outdoor equipment such as antennas, radars, bridges, steel towers, electric power plants, railways and buildings. HIREC-RAS will be offered at a promotional price for the moment.

1. Background and Overview of HIREC-RAS

HIREC has an extremely superior initial contact angle over 150 degrees while that of general fluororesin coatings are about 100 degrees. Therefore, surfaces coated with HIREC are water repellent and do not get wet, which means that a water film is unlikely to form.

However, as dust and dirt are present in the air and adhere to water repellent surfaces, hydrophobic performance generally decreases gradually. Hydrophobic performance will also deteriorate as the coating surface deteriorates due to ultraviolet rays contained in sunlight.

NTT-AT launched HIREC-R in June 2025. HIREC-R exhibits a self-cleaning function when exposed to sunlight even if dirt is attached to it. It is expected to maintain its super hydrophobic performance for about 3 years, which is a long term for a super water-repellent coating.

We have now launched HIREC-RAS, an aerosol version of HIREC-R. HIREC-RAS is an aerosol product that succeeds NTT-AT's conventional HIREC1100. It can be easily painted using a spray can, and is recommended for those who are considering small-scale applications such as partial repair of the paint surface of HIREC100 or HIREC-R. In addition, the spray uniformity has been improved compared to HIREC1100, making it easier to use.

As HIREC is effective not only for repelling water but also for preventing ice and snow accretion, it can be used in a wide range of fields such as antennas, radars, bridges, steel towers, electric power, railways, and buildings.



HIREC-RAS

2. Upcoming Exhibitions

NTT-AT will showcase HIREC at the following exhibitions.

Name of exhibition: "Meteorological Technology World Expo 2025"

Date: Tuesday, 14 – Thursday, 16, October, 2025

Venue: VIECON – Vienna Congress & Convention Center Vienna, Austria

Information: [Meteorological Technology World Expo I 14-16 October 2025](https://www.meteorological-expo.com/en/14-16-October-2025)

3. More information about HIREC, a super hydrophobic material

<https://keytech.ntt-at.com/envirom/prd4001.html>