



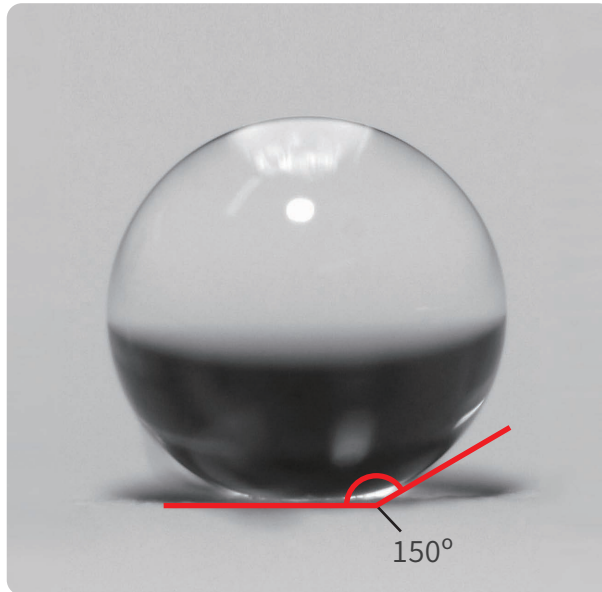
Significant Reduction in Water Film Attenuation During Rainfall, Sleet and Melting Snow.



Without HIREC® applied



After HIREC® is applied



Without HIREC® applied



After HIREC® is applied

Super Water-Repellant Material Powerfully Repels Water Droplets

Radically transforming the old ideas of water repellency, super water repellent HIREC® 100 creates a contact angle (an angle of contact between the object and water droplets) of more than 150°, resulting in unparalleled performance excellence.

In addition, its self cleaning effect greatly improves the problem of coating deterioration caused by air pollution, etc., maintaining the surface freshness, and so keeping its super water repellent characteristics, for approximately 3 years.

POINT

1

Prevents water film formation in rainfall reducing radiowave attenuation

Sharply reduces the radio attenuation in antenna, radar, etc., caused by water film formed by rain, sleet or melting snow for a stable transmission quality.

POINT

2

“Anti-Stick” characteristic reduces snow and ice accumulation

As well as preventing adhesion of snow and ice, it prevents icicle formation and protects against equipment damage from falling ice and snow.

POINT

3

Self cleaning effect maintains performance for approximately 3 years

The self cleaning effect greatly reduces coating deterioration from air contaminants in outdoor installations. The coating maintains an always fresh surface for about 3 years.



Application Examples

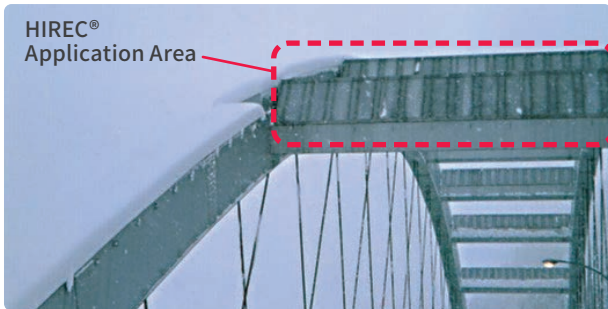
Reducing antenna and radar water film attenuation during rainfall, sleet or melting snow.

HIREC® 100's super water repellency suppresses the formation of water film on antenna and radome surfaces, reducing radio wave attenuation. Additionally, the self cleaning effect greatly reduces coating deterioration from air contaminants in outdoor installations, maintaining effectiveness for about 3 years.



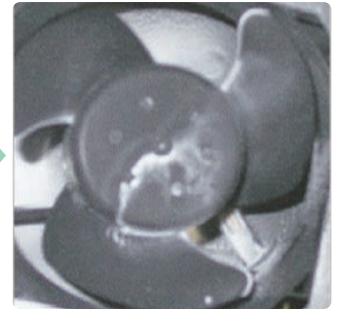
Preventing snow accretion on bridges

HIREC® 100's "Anti-Stick" characteristic turns falling snow into small particles, reducing the effect on cars and pedestrians.



Preventing ice coating on equipment

HIREC®'s anti-adhesion characteristic keeps the freezer fan from icing up.



Application Procedure

Process	Product Name	Application Method	Applications (coats)	Coating Thickness (µm)	Standard Amount (g/cm ²)	Recoating Time (@20°C)
1. Surface prep.	-	Lightly rub the coating surface with sandpaper, then remove oils and other contaminants with wipes, thinner, etc. and dry completely.				
2. Under coat	HIREC® Undercoat UPS	Brush, roller or Air spray gun	1	30	Brush or roller:170 Air spray gun:200	24 hours
3. Top coat	HIREC® 100	Brush, roller or Air spray gun	1	30	Brush or roller:250 Air spray gun:300	-

Notes:

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