OPTIMUS Paint for sustainable future

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O1 Profile



Profile - History & Certification

History

- 1985 Established Hoei Sangyo Co., Ltd.
- 1987 Started manufacturing and selling melanin paints for elevators for bicycle frames.
- 2000 Started manufacturing and selling heat insulating coatings and heat insulating coatings.
- 2004 Established "Big Power Supply" in Thailand country Started manufacture and sale of special paints.
- 2006 ISO9001:2008 Certification Registration Certification Registration Range: Paint manufacturing
- 2009 Started research and development of PHOTOCATALYST paints by joint development of Sakai City and Osaka Prefecture University.
- 2012 Company brand "OPTIMUS" up the city Sales Company "Optimus Inc." established
- 2014 Opened Tokyo branch





Certification

- 2006 ISO9001:2008 Certification registration Scope of certification registration: Paint manufacturing
- 2011 Certified as a "Sakai Environmental Challenge Company" by Sakai City
- 2012 Selected for support subsidy for manufacturing small and medium-sized enterprises and small business prototype development, etc.
- 2013 Sakai Gishu Certification
- 2014 Ministry of Economy, Trade and Industry Kinki Bureau of Economy, Trade and Industry The 3rd "New Collaborative Business Plan" was adopted in FY2013. Selected for the 2013 Small and Medium Enterprises/Small Businesses Manufacturing/Commerce/Service Innovation Project
- 2015 In FY2014, the new collaboration support project was adopted by the Kinki Bureau of Economy, Trade and Industry, Ministry of Economy, Trade and Industry.
 Selected as one of the Ministry of Economy, Trade and Industry's
 ``300 small and medium-sized businesses that do their best''

Profile - Vision

PAINT TO SAVE THE PLANET









02 Nanufacturer



Manufacturer - Hoei Sangyo Co., Ltd.

Hoei Sangyo Co., Ltd.

Established on the 23rd January 1185 Location : 94 Oonoshiba-cho, Naka-ku, Sakai city, Osaka







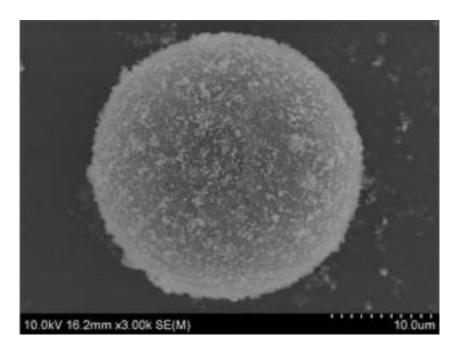




03 Our technology



Our technology - Photocatalyst

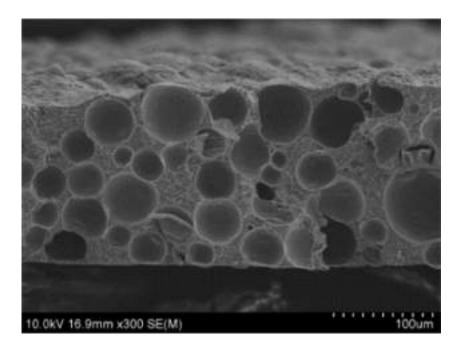


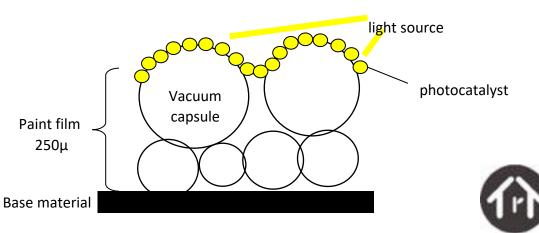
"Capsule loaded with photocatalyst: Super capsule"



Capsule without photocatalyst

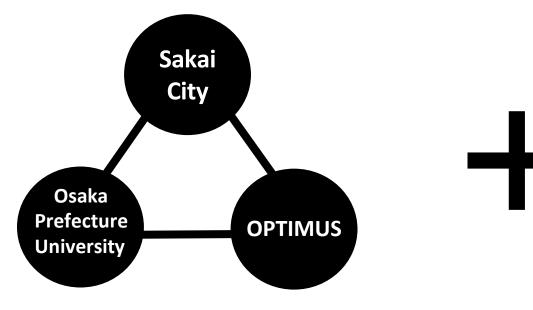
Capsule with photocatalyst "Super capsule"





Our technology - Photocatalyst

Industry-government-academia Joint development



Japanese patents

Exterior paint Patent No. 5711717

Interior paint Patent No. 6027394

International patents



Create a sustainable world with Optimus paints!



04 Patent



Patent





05 Lingup





For exterior OPTIMUS WHITE PAINT



For interior OPTIMUS INTERIOR PAINT



For interior, antivirus OPTIMUS INTERIOR MEDICAL PAINT



For exterior, heat insulation HYDRO THERMO & DARK THERMO







06 OPTIMUS WHITE PAINT

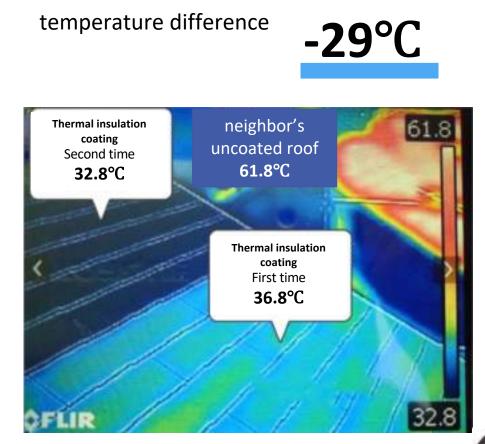
Hanamaruki miso making experience center, 2017

OPTIMUS WHITE PAINT

Features



Thermal insulation





OPTIMUS WHITE PAINT - Aging

October 2018 (immediately after completion)



October 2022 (approximately 4 years after construction)



Construction period
October 2018

self cleaning

function

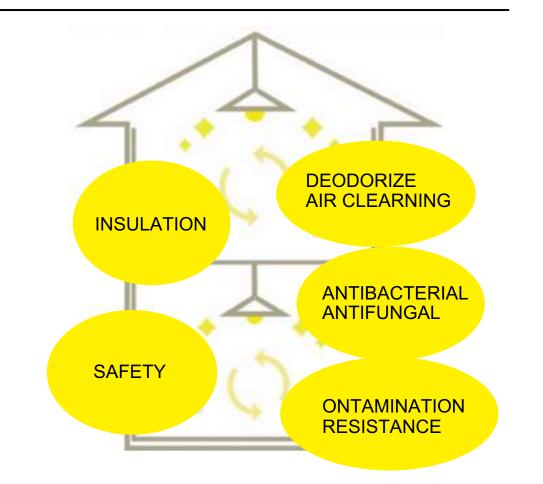


O7 OPTIMUS INTERIOR PAINT



OPTIMUS INTERIOR PAINT

Features



That's why the inside of the room is always clean and safe!

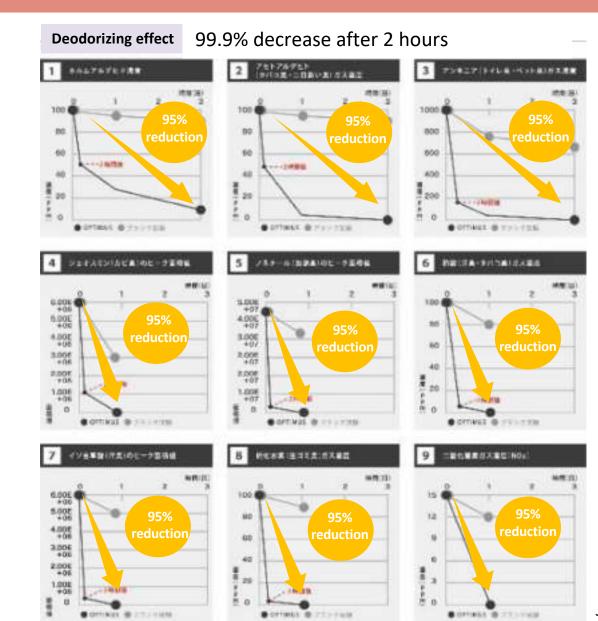
Odor tends to ascend. TIPS OPTIMUS applied on the ceiling deodorizes odor that ascends with steam in the air. OPTIMUS is relatively high in viscosity, and thus, easy to apply on the ceiling. Can be applied on top of wallpaper



OPTIMUS may be applied on top of, and requires no peeling off of wallpaper, making it optimal for remodeling.



OPTIMUS INTERIOR PAINT - Evidence

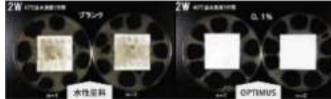


Antibacterial effect		Dead after 8 hours	
苗名	生苗数	光照射(照射強度0.25mW/cm2) 8時間後結果	
		ブランク	OPTIMUS
大腸菌	1.0×10 [‡]	8.5×104	<10
黄色ブドウ球菌	1.4×10 ²	2.3×104	<10

Anti-mold effect

No mold even after 76 hours







JIS standard test results at Osaka Prefectural Industrial Research Institute, etc.

OPTIMUS INTERIOR PAINT - Works

 Chichibu City, Saitama Prefecture Single-family house Construction: 2018 NC006 white



 Chuo Ward, Tokyo Tokyo Midtown Yaesu Construction: 2022 Toning



 Osaka prefecture detached house Construction: 2020 NC002 urban gray ,NC003 Light gray



 Kameoka City, Kyoto Starbucks Kameoka Ekimae store Construction: 2021 NC003 beach sand



 Minato Ward, Tokyo Atre Takeshiba Construction: 2020 Toning



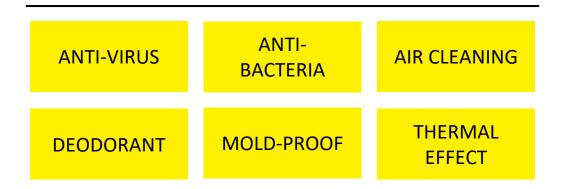
• Kita Ward, Tokyo Aoba Nursery School Nishigaoka Construction: 2017 NC006 white



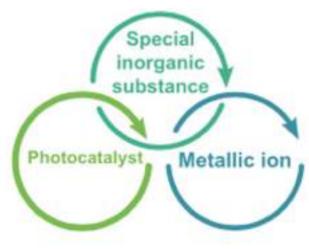


OPTIMUS INTERIOR MEDICAL PAINT

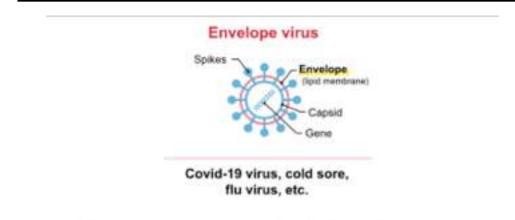
Features



The 3 components co-act to thoroughly inhibit the growing of viruses and bacteria



Works on the envelope virus



The 3 components break into the membrane of the protein of envelope virus and inactivate the RNA (nucleic acid) inside the virus.

Viruses are generally tinier than bacteria, and there are also 2 types of viruses—those with a protein membrane called envelope and those without. OPTIMUS INTERIOR MEDICAL PAINT has been proved to have inhibiting effect on the viruses with an envelope (with a decrease rate of 99.9999%).



OPTIMUS INTERIOR MEDICAL PAINT – Test result

Tested by Japan Textile Products Quality and Technology Center

ISO 21702 TESTED

Tested virus: influenza A (H3N2) A/Hong Kong/8/68; TC adapted ATCC VR-1679



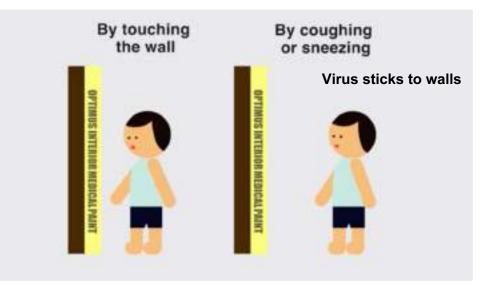
Proven anti-virus effect based on ISO21702 anti-virus test pursuant to the international standards

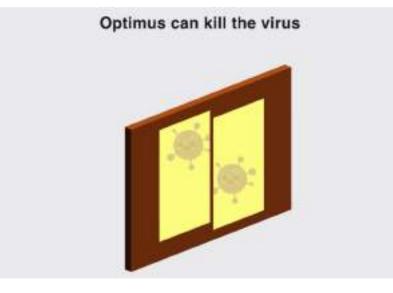


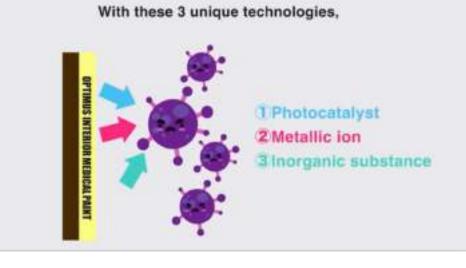


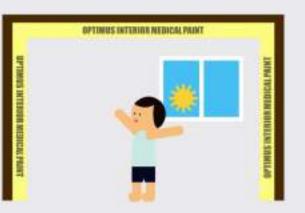
Anti-virus

OPTIMUS INTERIOR MEDICAL PAINT – Effects





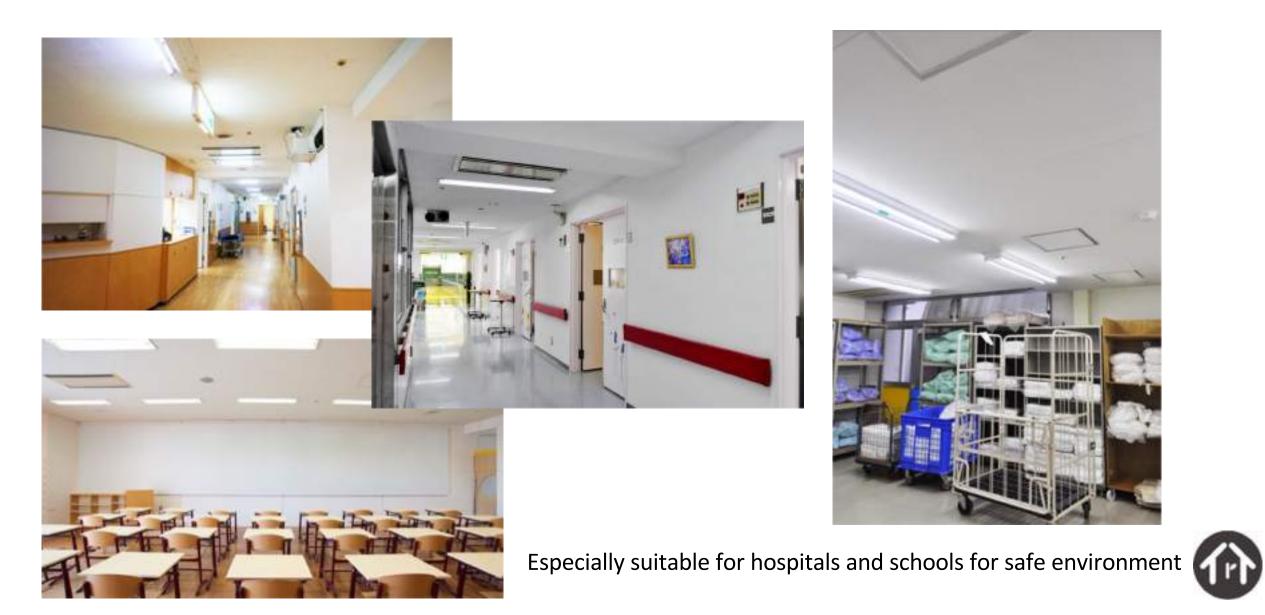




By painting the inside of the room, it can create a safe and secure space.



OPTIMUS INTERIOR MEDICAL PAINT - Works



09 HYDRO THERMO/

DARK THERMO



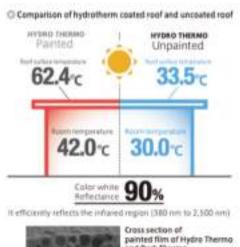
HYDRO THERMO & DARK THERMO - Features





HEAT SHIELDING/ THERMAL INSULATION

Contrains a complex body based heart inhibiting modured pigment, which exhibits a hear chiefding effect by efficiently reflecting the bear rays (inflaned rays) contained in surlight and decrease the surface temperature.



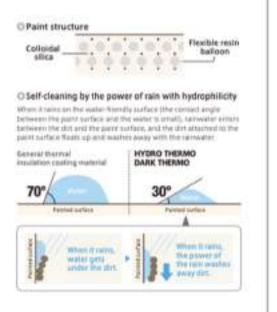


Lowers room temperature with two effects: heat shielding and insulation



HYDROPHILIC/ STAIN RESISTANT

By combining the hydrophilic function (self-cleaning effect) with a unique paint formulation, it is possible to maintain heat shielding effects and low pollution properties for a long period of time.

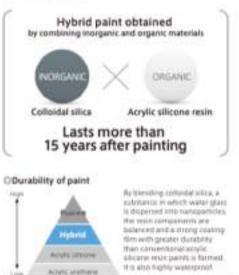


Maintains heat shielding effect and low pollution for a long time

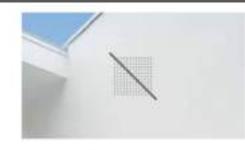


WEATHER RESISTANCE AND DURABILITY

A paint containing acrylic and silicone reon that has excellent weather resistance and durability. No atmormalities occurred in the paint film after 3,750 hours of OV vicadiation (equivalent to 15 years of outdoor exposure) after placing the test spectmen in an accelerated weathering tester. "We mentandou or 256,5575

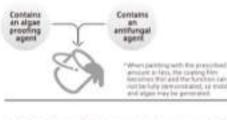


Long-lasting and resistant to deterioration and deterioration caused by weather



MOLD AND ALGAE RESISTANT

The combination of anti-algae / anti-fungal agent suppresses the occurrence of mold, algae and mold, so it is safe even in places where the sun does not hit or areas with high moltane along the sea. It can be used in a wide range of applications from large factories to residential buildings.



O Hydro Thermo / Dark Thermo mold resistance test

40°C warm water immersion for 3 days

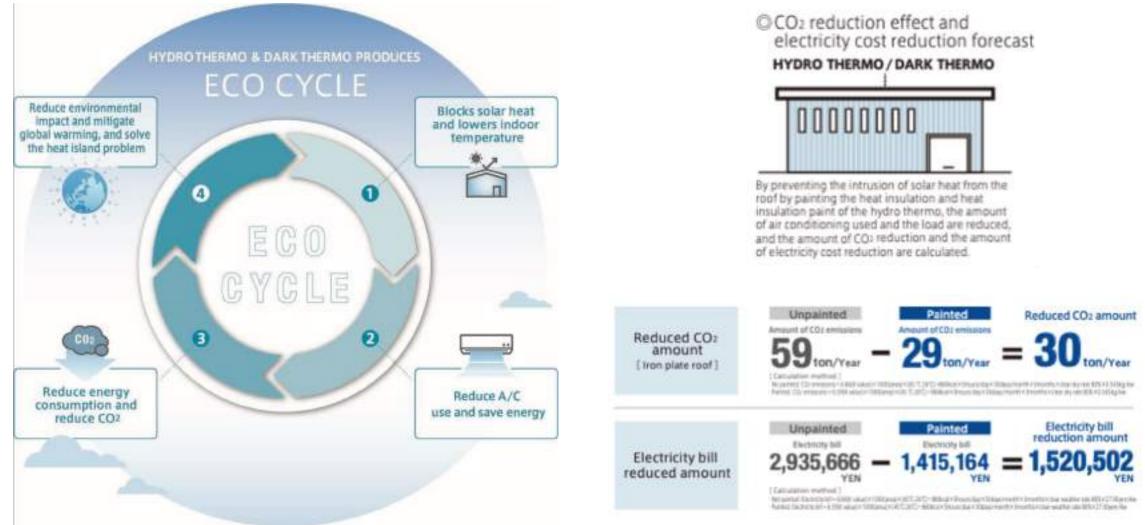


Test method: According of E-2 2011 mickSourcess test method: gaint test Protegiment: ACC wave water tensor term 5 and Protegiment with test specific terms and provide methods to the real perform

Can be used in various applications, regions, and environments



HYDRO THERMO & DARK THERMO – ECO Cycle





HYDRO THERMO & DARK THERMO – Works







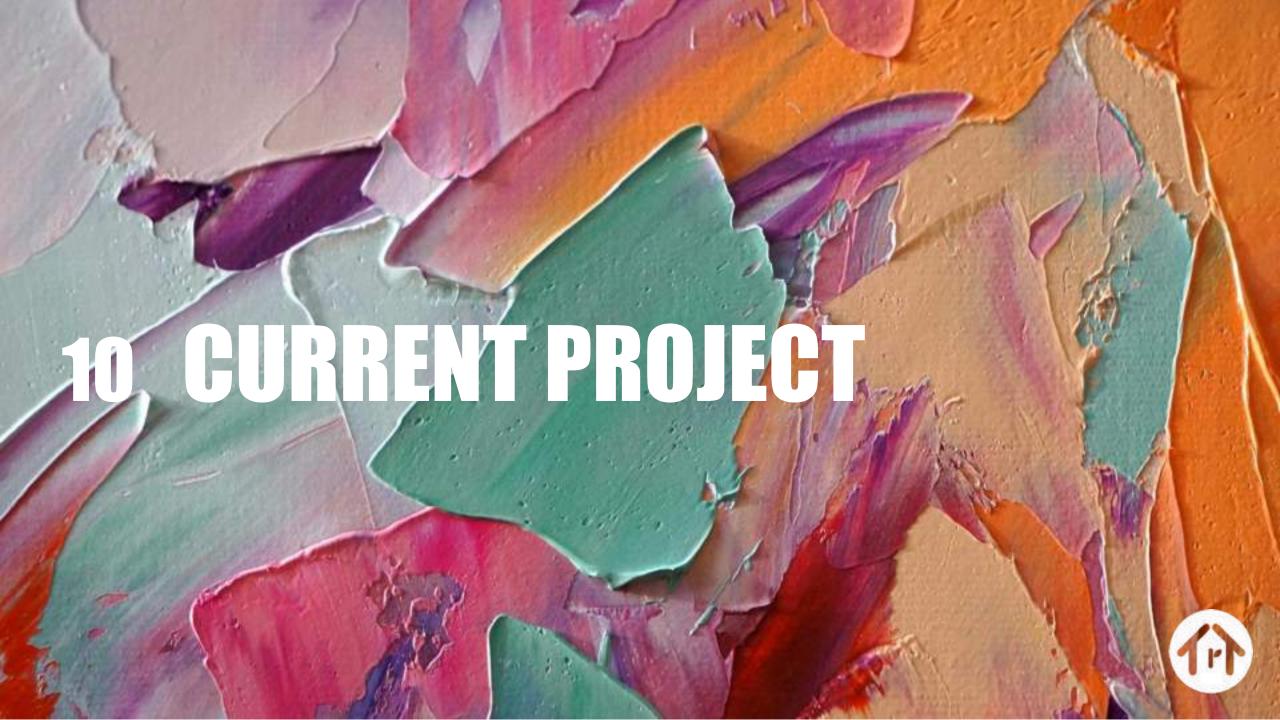






For roof, wall, factory, house, tank, container and etc.,

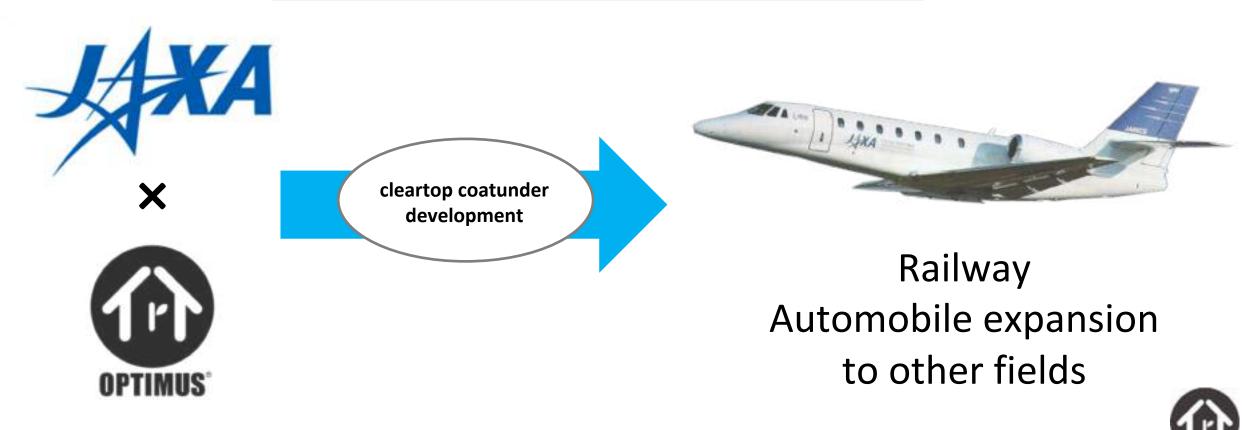




CURRENT PROJECT

Started joint research with JAXA and Waseda University on photocatalytic antifouling paint for aircraft.

Scheduled for completion from April 2019 to 2024



PAINT TO SAVE THE PLANET

Making the world more sustainable with paint.

Contributing to the carbon neutral era.

