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EXCLUSIVE!



North Central And South American Distributor For:
SOMAY-Q TECHNOLOGY Inc. Japan

INDUSTRIAL

Anti Rust And Corrosion Solution



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MADE IN JAPAN



- All over the world, there are so huge number of aged steel & concrete infrastructures in 30-50 years old, which are facing serious problems of heavy rust, corrosion, and deterioration.

- All asset owners of such aged infrastructures have to reinvest huge capital amount for replacement. In order to rescue those heavily damaged and aged infrastructures, and to prolong the useful life of those assets, SOMAY-Q developed "NANO PARTICLE PAINTS" combined with unique adhesion technology, specializing in corrosion protection and reinforcement of various substrates.



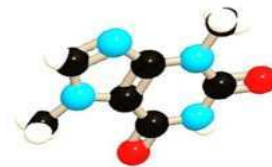
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SOMAY-Q's MISSION

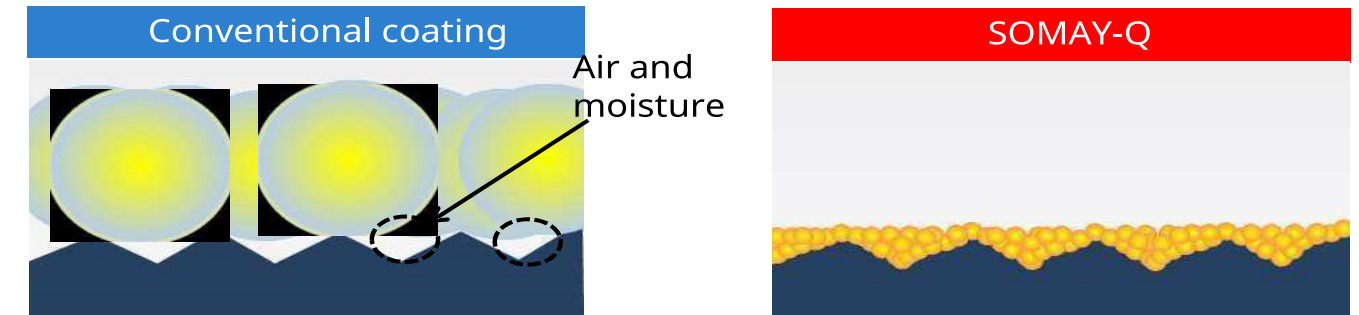
- 1) Rescuing the such aged infrastructures to be revived by SOMAY-Q "Nano particle paints" through maximizing advantage of superb adhesion, anti-rust ,anti-corrosion and reinforcing power of SOMAY-Q Nano particle paints.
- 2) Protecting all new and old plants, storage tanks, warehouse, and public facilities etc. from rusting, corroding, and any kind of deterioration through maximizing advantage of superb adhesion, anti-rust, anti-corroding ,and reinforcing power of SOMAY-Q Nano particle paints.



SOLUTION PROVIDER

- 1) SOMAY-Q is not only Paint products manufacturer and supplier but also Solution provider " for every asset owners.
- 2) SOMAY-Q will provide the solution to solve asset owner's every maintenance problems through maximizing advantage of SOMAY-Q Nano particle paints.
- 3) SOMAY-Q will develop specially customized SOMAY-Q Nano particle paints together with every asset owners in order to solve Asset owner's maintenance problems.

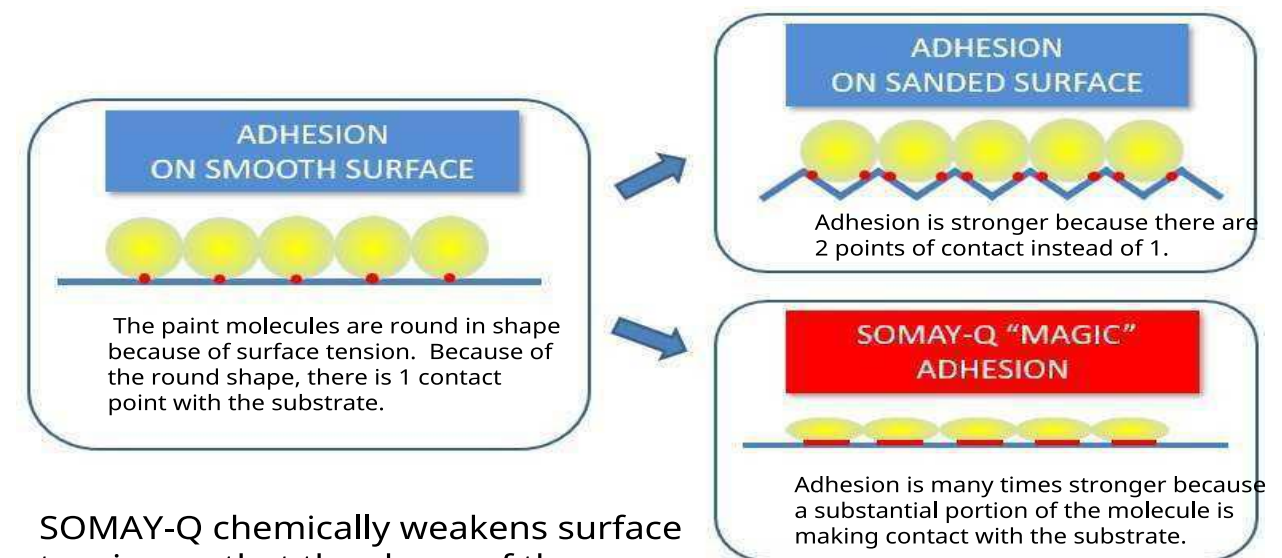
SOMAY-Q NANO PARTICLE SOLUTION



- SOMAY-Q combines nano-emulsion technology that penetrates deep into the microscopic gaps of the surface imparting strong bond strength
- Particle size of binder and additives is less than 500 Nm with over 80% solids in the paint

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MAGIC ADHESION MECHANISM



SOMAY-Q chemically weakens surface tension so that the shape of the molecules becomes oval.

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SOMAY-Q NANO TECHNOLOGY SOLUTION



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The advantage of ANTI RUST SOLUTION

- 1) Undercoat:
-SOMAY-Q undercoat does not need 1st middle coat and 2nd middle coat, which ordinary paints will require , because SOMAY-Q undercoat does have Superb adhesion.
-SOMAY-Q undercoat can minimize coating job cost to about 1/3 of coating job cost by ordinary paints.
- 2) Simple surface preparation works prior to coating:
-"SSPC.SP2 or ST-2" by wire brush and sandpaper.
Ordinary paints usually require "SSPC.SP10 or SA2.5" by sand blasting.
-It is so easy to make surface preparation on any kind of complicated structure , anywhere it got in and anywhere HOT works is prohibited, because of surface preparation by wire brush and sandpaper.
- 3)Shorter Drying time:
-We design Drying time and Recoating time much shorter than ordinary paints
-Shorter drying time and Recoating time will minimize working hours and coating job cost.
- 4)Applicable to every materials:
-SOMAY-Q Nano particle undercoat can adhere well to most of metals like galvanized metal, hot dip galvanized steel, aluminum, stainless steel, etc and more over can apply to old coating (active coating).

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The advantage of ANTI RUST SOLUTION

- 5)Makes facilities last for long time:
-SOMAY-Q Nano particle paints can extend maintenance cycle to about 5-7 years instead of about 3 years in ordinary case.
- 6)Much lower total cost of coating job:
-SOMAY-Q Nano particle paint can drastically shorten working period for coating job and can minimize total application cost (labor x days • hours cost)so much.
-SOMAY-Q Nano particle paint save about 30-40% of total cost for clients comparing with ordinary case.



- 7)Saving 'Down Time cost':
-SOMAY-Q Nano particle paint can save substantially 'Down Time cost' for clients.

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SOMAY-Q IMPLEMENTATION RECORD

INDUTSRIES	IMPLEMENTED SITES
POWER STATIONS	VARIOUS KIND OF PIPELINE
STEEL MILLS	DAMAGED PIPELINE WITH HOLE
CEMENT INDUSTRIES	VARIOUS TANK ROOF
AUTOMOBILE INDUSTRIES	VARIOUS TANK INTERNAL & EXTERNAL WALL
MILITARY INDUSTRIES	OIL LEAKING TANKS
SHIPMAINTENACE	JETTY DOLPHINES
CHEMICAL INDUSTRIES	BELT CONVEYER SUPPORTS
OIL TERMINALS	GAS TURBINE ROOM
OIL REFINERIES	CHIMNEY
RAILWAY INDUSTRIES	VARIOUS CHIMNEY CORRUGATED ROOF
	HEAVILY DAMAGED OUTDOOR STAR-CASE WITH MANY HOLES
	VARIOUS FACILITIES TREATING SEAWATER
	TUNNEL

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NKRN-66

- SOMAY-Q succeeded to develop an almighty special material NKRN-66 which can reinforce all materials, not limited to protect materials from rusting and corroding.
- NKRN-66 is only one material in the world which can reinforce and protect materials such as metals, concrete and so on from rusting and corroding.
- NKRN-66 can fully repair heavily damaged site, heavily degraded area, holes on pipeline, holes of metal structures etc. and revive those area.

Anti Rust And Corrosion Solution Lineup

UNDERCOAT

- EP066
- NKRN-66

NKRN-66

Anti Rust And Corrosion Solution Videos

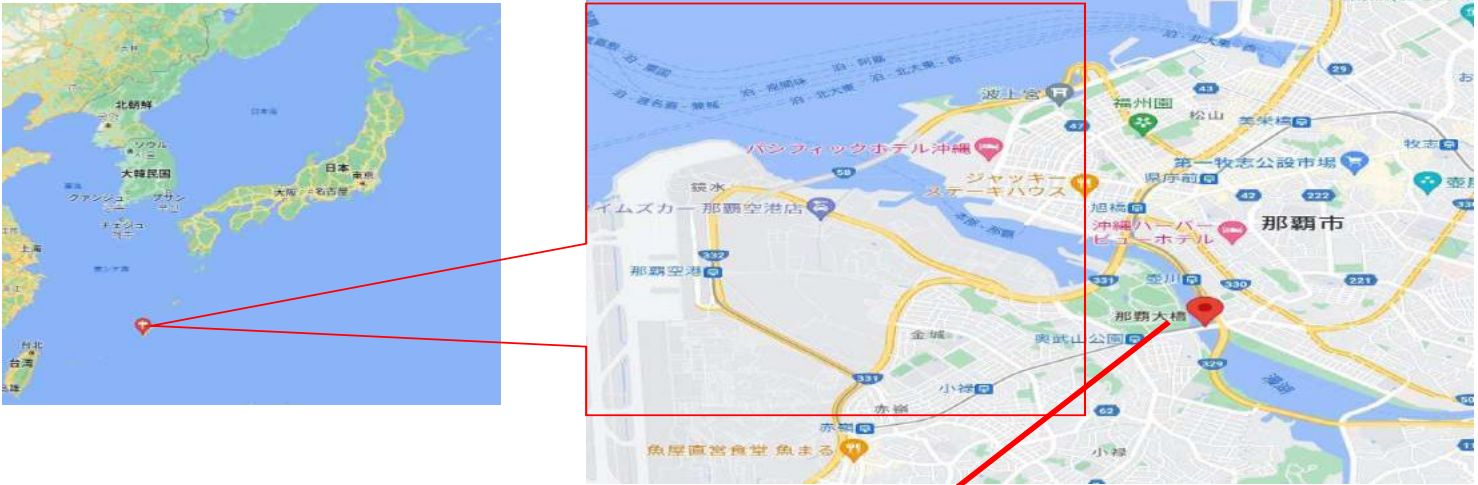


Hammer test for Concrete



Repair of Heavily Degraded Stair case at JFE





CASE STUDIES

Monitoring condition(December, 2022)



Other company

SOMAY-Q

Naha Ohashi (bridge) large scale maintenance using NKRN-66(October, 2022)



SSPC-SP2(Handtool cleaning)

Naha Ohashi (bridge) large scale maintenance using NKRN-66(October, 2022)



Before

After

Monitoring condition(April, 2023)



Monitoring condition(November, 2023)



WATER TANK (Roof)

Customer Power plant

When 2018

Solution NKRN66,NKRN-TOP



BEFORE

SURFACE PREPRATION(SP1)

REPAIRING HOLES(No welding)

UNDERCOAT(NKRN66)

TOPCOAT(NKRN TOP)

AFTER

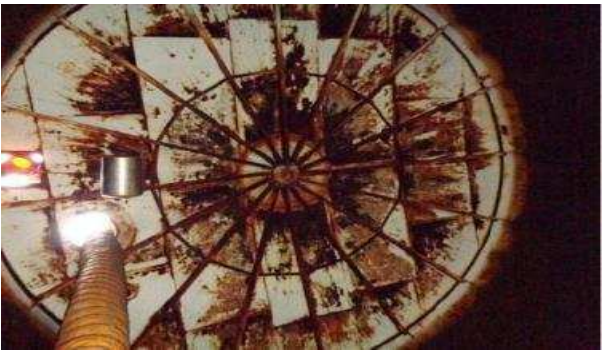
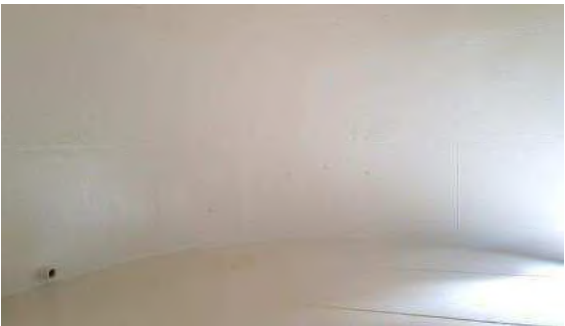


WATER TANK (Inside)

Customer Power plant

When 2020

Solution EP039,NKRN66



BEFORE

AFTER



WATER TANK (Outside)

Customer Milk Industry

When 2020

Solution NKRN66,AP089



BEFORE

AFTER

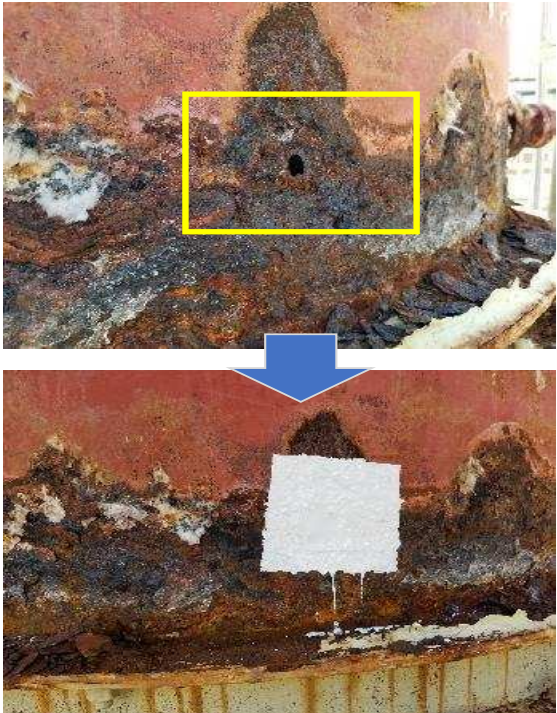


WATER TANK (Holes)

Customer Power plant

When 2019

Solution EP066,AP089



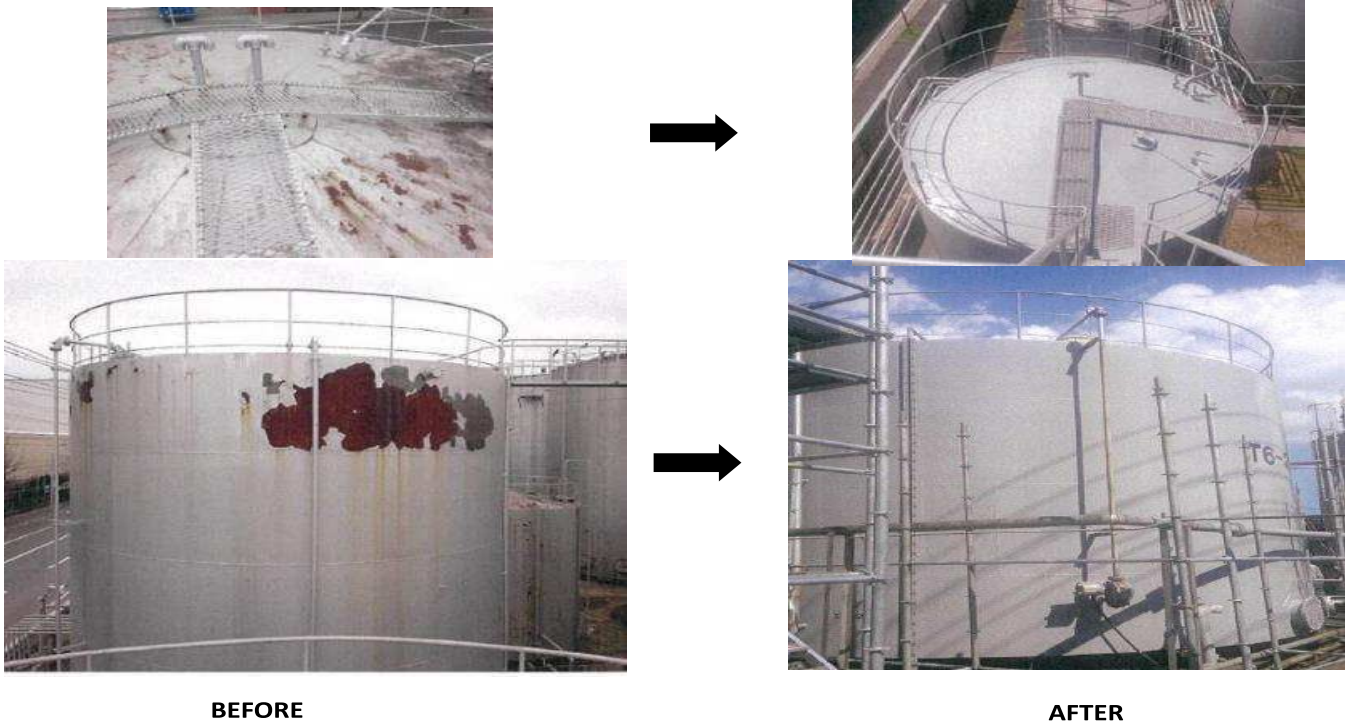
Before

After



OIL TANK (Outside)

Customer Oil mill company When 2016 Solution EP039,AP089



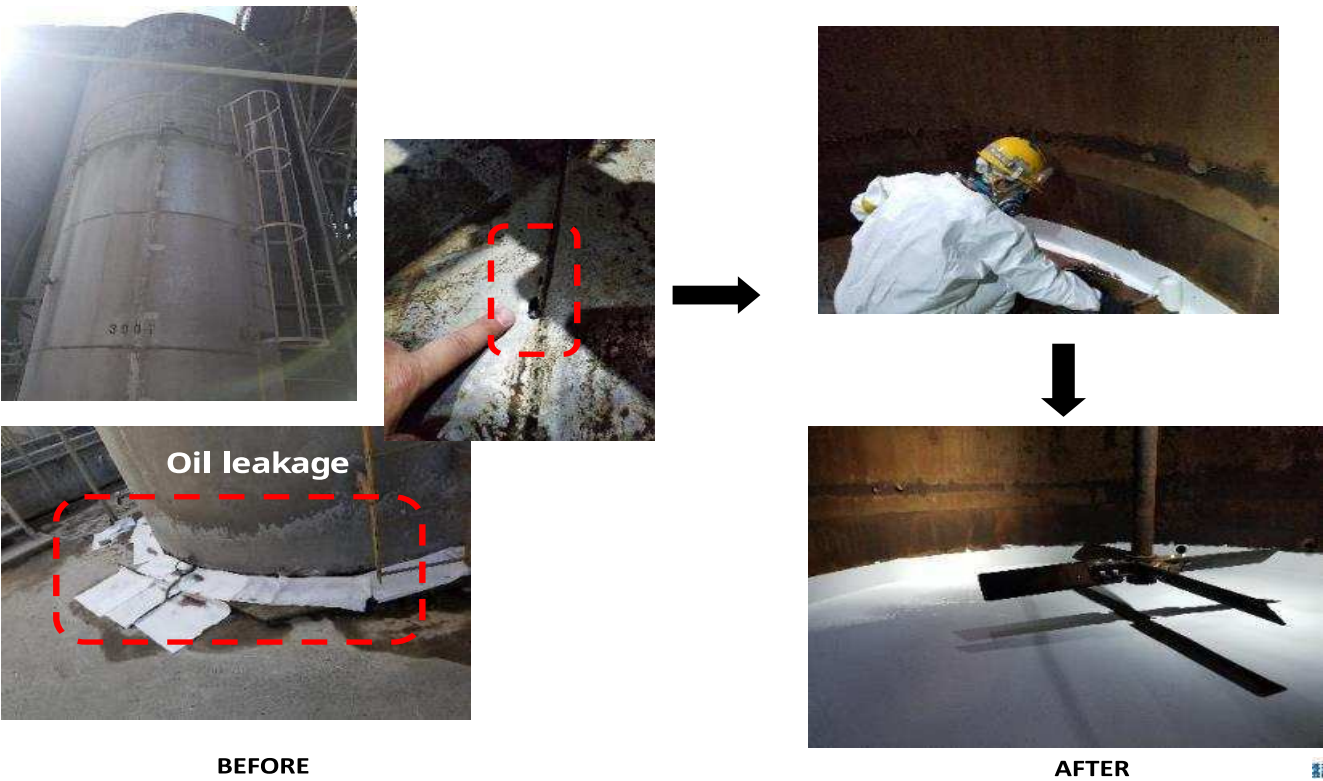
CHEMICAL TANK(Outside)

Customer Chemical company When 2019 Solution NKRN66,AP089



OIL TANK (Bottom)

Customer Cement company When 2019 Solution NKRN66



WIND GIRDER

Customer Oil storage When 2017 Solution EP039,AP089



TANK PLATFORM

Customer Oil storage

When 2018

Solution EP039,AP089



BEFORE



SURFACE PREPRATION(ST2)



UNDERCOAT(NKR66)



TOPCOAT(AP089)

新染めテクノロジー

PIPELINE(Holes)

Customer Oil storage

When 2017

Solution EP066



CORROSION ON PIPELINE



SURFACE PREPARATION



AFTER PAINT



Pressure Testing 13.5 Bar

新染めテクノロジー

WIND GIRDER SUPPORT BEAM

Customer Oil storage

When 2017

Solution EP039,AP089



Before



Surface Preparation



After Application of Paint

新染めテクノロジー

PIPELINE

Customer Oil storage

When 2018

Solution EP039,AP089



BEFORE



UNDERCOAT(EP039)



SURFACE PREPRATION(ST2)



TOPCOAT(AP089)

新染めテクノロジー

PIPELINE

Customer Food factory When 2016



BEFORE



UNDERCOAT(EP039)

Solution EP039,AP089



SURFACE PREPRATION(ST2)



TOPCOAT(AP089)



PIPELINE

Customer: Military When 2021

Solution NKRN66,AP089



Oil leakage



0.8MPa

PIPELINE

Customer: Military When 2021

Solution NKRN66,AP089



BEFORE



AFTER

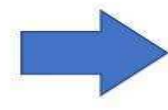
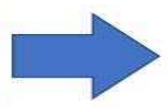


PIPE

Customer Power Plant

When 2019

Solution EP066,NKRN66,AP089



BEFORE

AFTER



PIPE FLANGE

Customer Power plant

When 2018

Solution NKRN66,AP089



BEFORE



SURFACE PREPRATION(ST2)



UNDERCOAT(NKRN66)



TOPCOAT(AP089)

新築めQテクノロジー

PIPE FLANGE

Customer Power plant

When 2018

Solution NKRN66,AP089



BEFORE



SURFACE PREPRATION(ST2)



UNDERCOAT(NKRN66)



TOPCOAT(AP089)

新築めQテクノロジー

H-BEAM

Customer Power plant

When 2018

Solution NKRN66,AP089



BEFORE



SURFACE PREPRATION(ST2)



UNDERCOAT(NKRN66)



TOPCOAT(AP089)

新築めQテクノロジー

GAS TURBINE CHIMNEY

Customer Power Plant

When 2018

Solution EP039,AP089



BEFORE



AFTER

新築めQテクノロジー

CHIMNEY

Customer Power Plant

When 2018

Solution EP039,AP089



BEFORE



AFTER

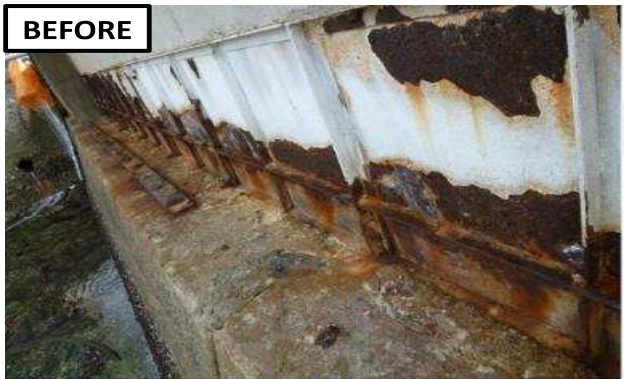
新染めQテクノロジー

PUMP ROOM (outside) of FISH POND

Customer Fish farm company

When 2018

Solution NKRN66,AP089



BEFORE



AFTER



BEFORE



AFTER

新染めQテクノロジー

PUMP ROOM (inside) of FISH POND

Customer Fish farm company

When 2018

Solution NKRN66,AP089



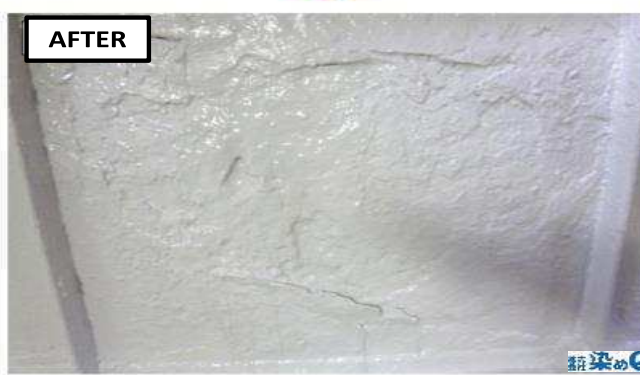
BEFORE



AFTER



BEFORE



AFTER

新染めQテクノロジー

SOMAY-Q USA

STEEL PIPE PILE

Customer Power Plant

When 2017

Solution EP039,AP089



BEFORE



AFTER



SURFACE PREPARATION(ST2)



UNDERCOAT(EP039)



TOPCOAT(AP089)

SHIP LOADER

Customer Power Plant

When 2019

Solution NKRN66,AP089



BEFORE



NKRN66



AP089

CRANE

Customer Steel company

When 2014

Solution EP039,AP089



BEFORE



AFTER

UNLOADER

Customer Power plant

When 2022

Solution EP039, AP089



BEFORE



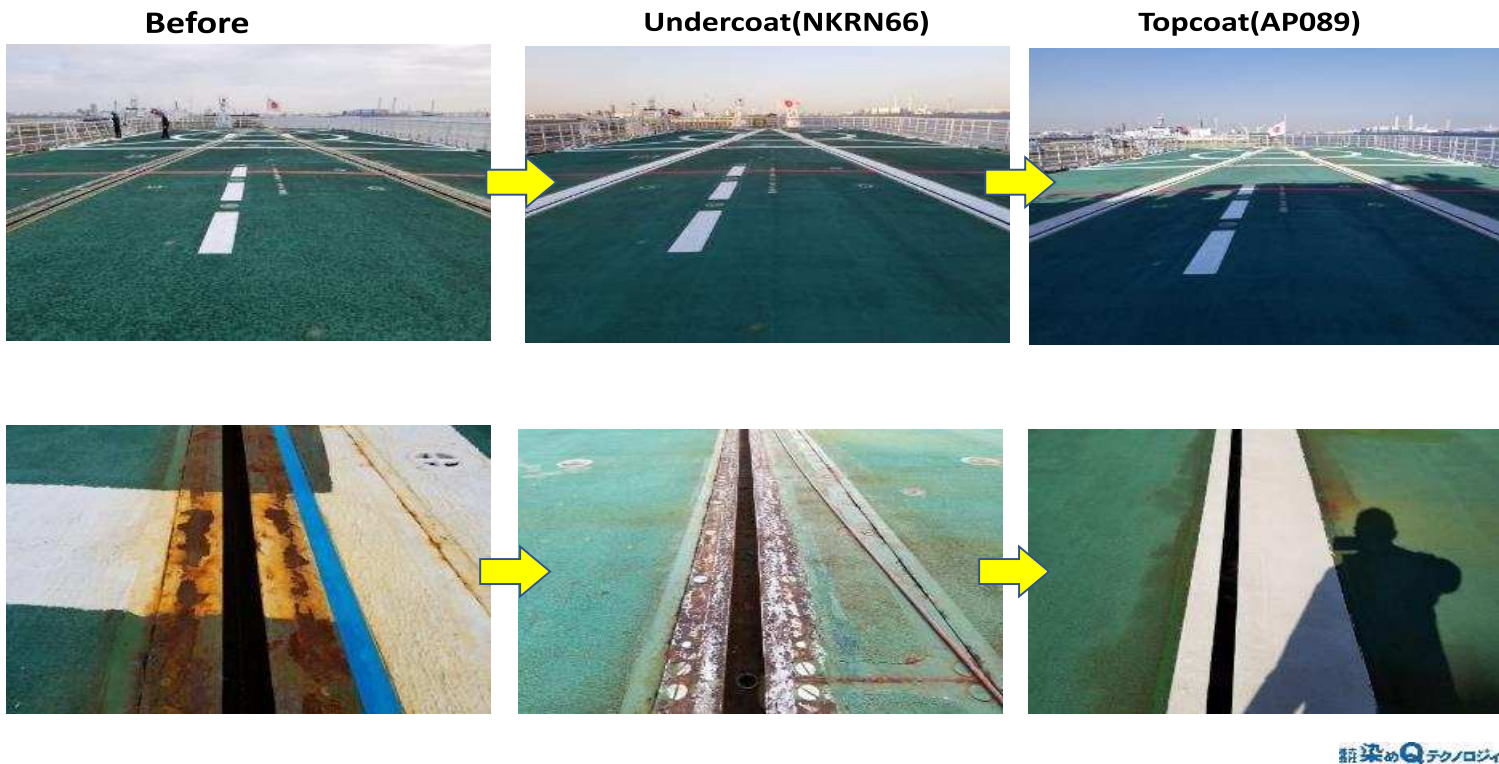
EP039



AP089

SHIP DECK(Rail)

When 2019 Solution NKRN66,AP089



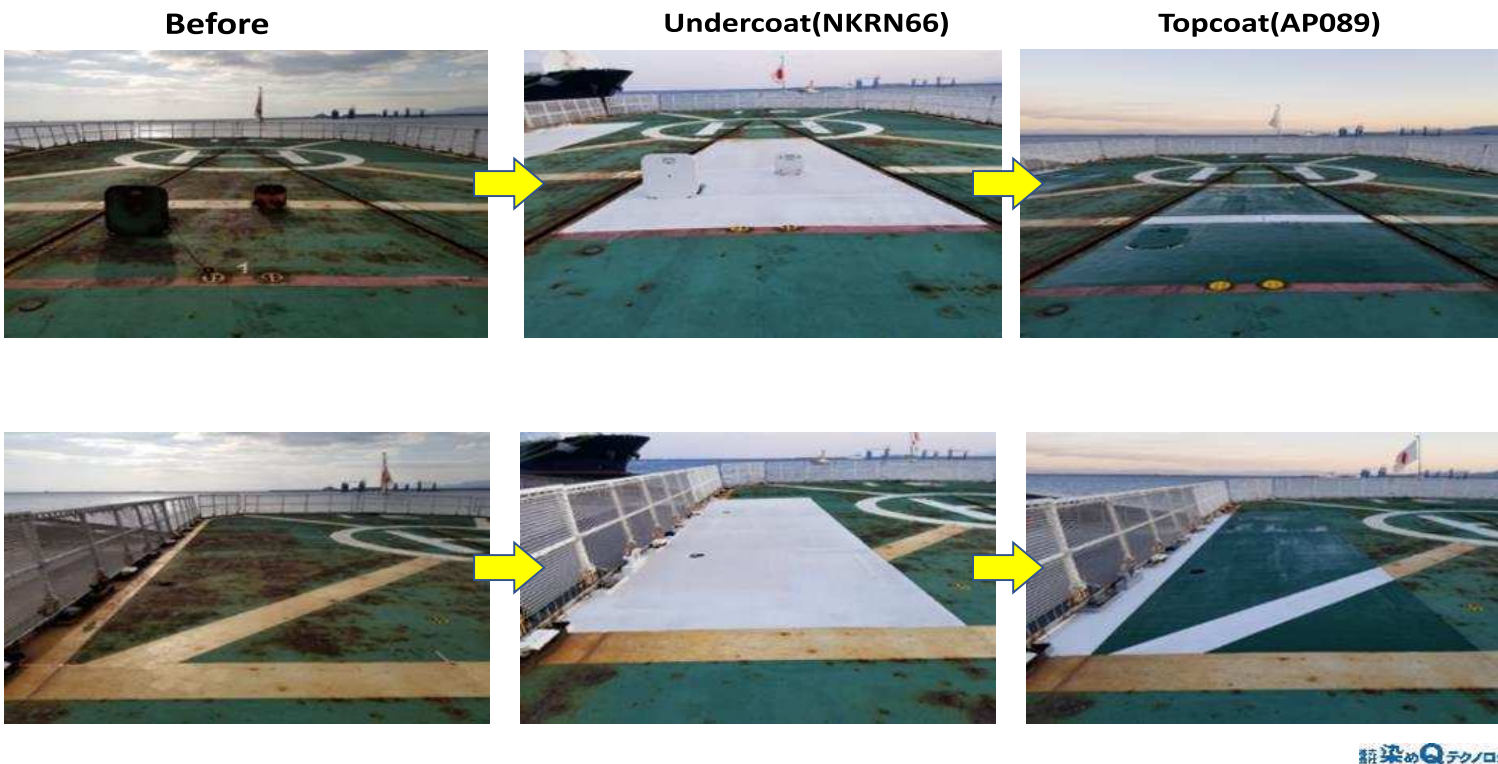
SHIP DECK(Crane)

When 2019 Solution NKRN66,AP089



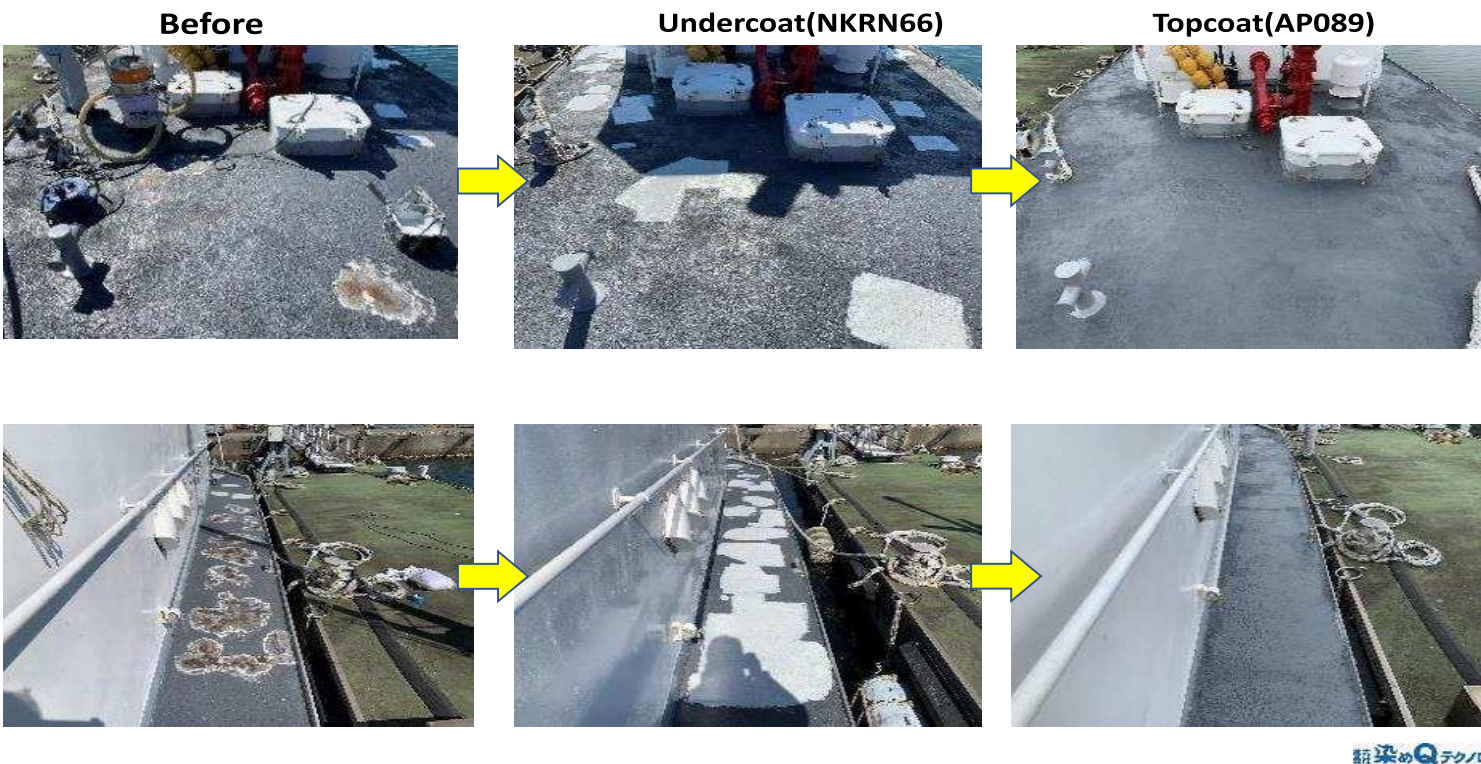
SHIP DECK(Helideck)

When 2019 Solution NKRN66,AP089



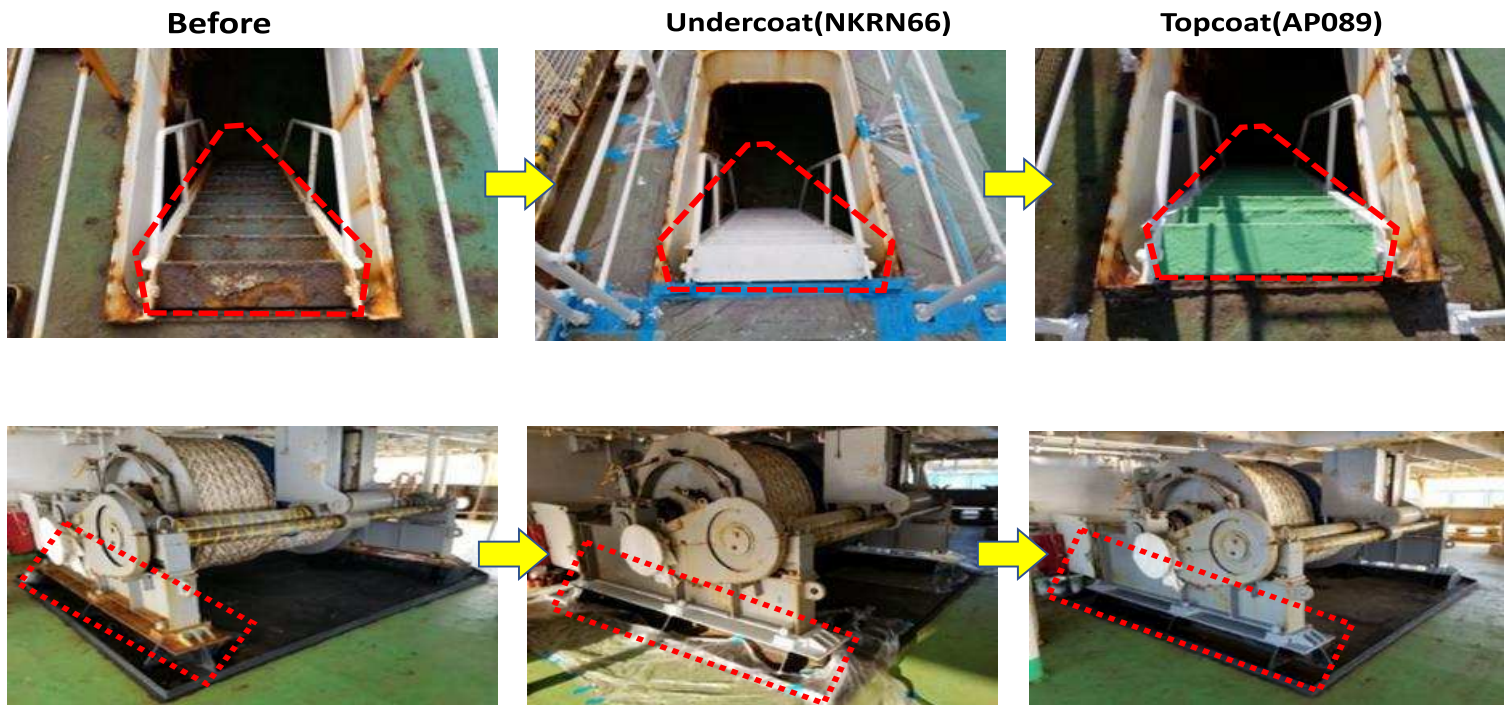
SHIP DECK

When 2019 Solution NKRN66,AP089



SHIP DECK(Stairs and machines)

When 2019 Solution NKR66,AP089



新築めQテクノロジー

AIRFILTER HOUSE(Roof top)

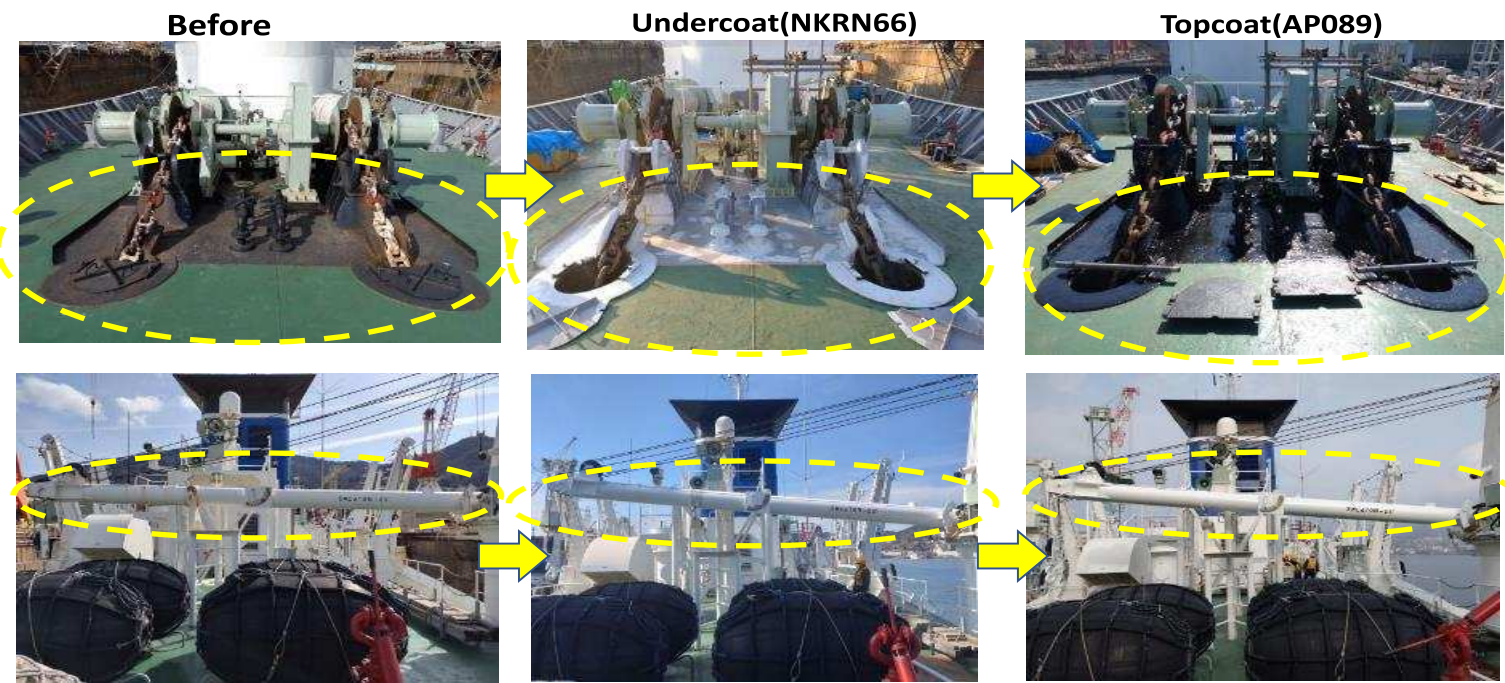
Customer Power Plant When 2019 Solution NKR66,AP089



新築めQテクノロジー

SHIP DECK(Machine and Crane beam)

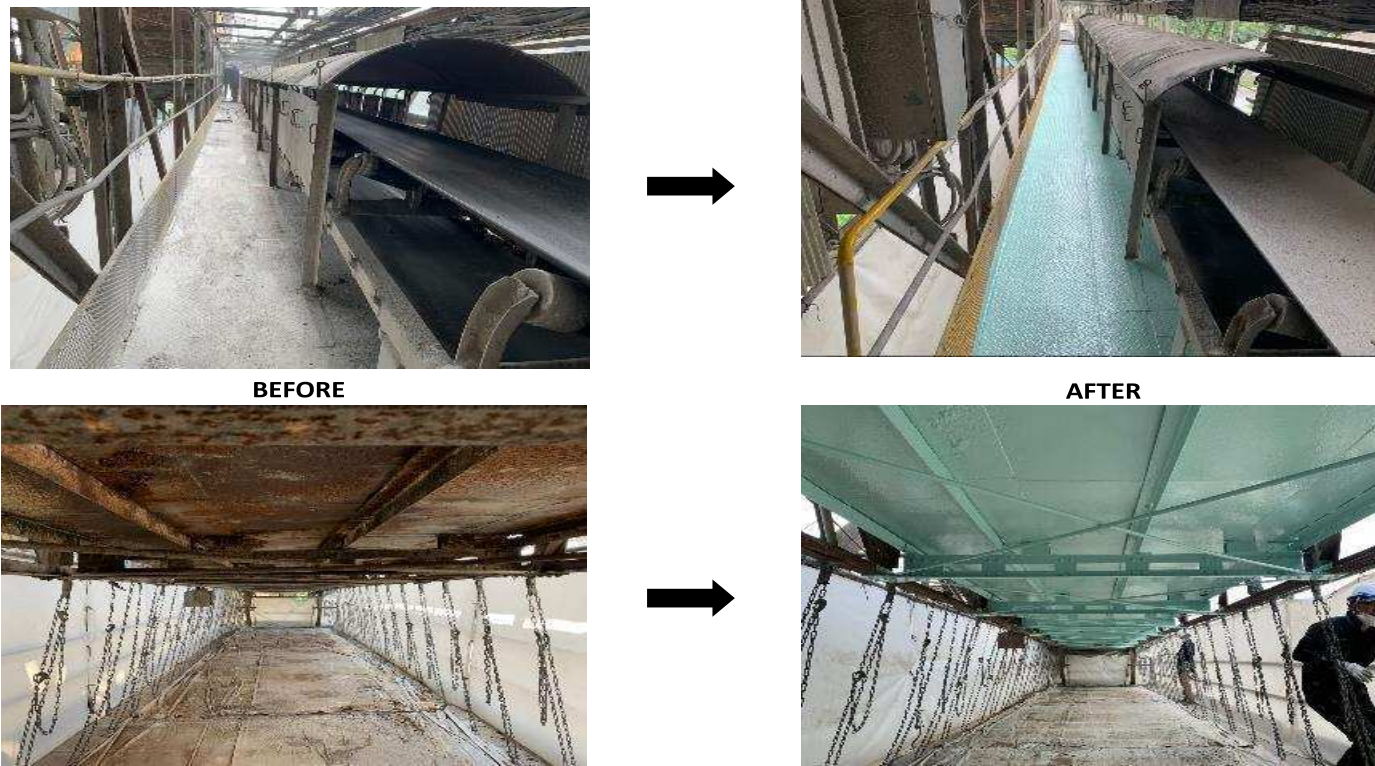
When 2022 Solution NKR66,AP089



新築めQテクノロジー

PLANT CORRIDOR

Customer Cement company When 2021 Solution NKR66,AP089



新築めQテクノロジー

VEHICLE ELEVATOR EQUIPMENT

Customer Shipbuilding company When 2022 Solution NKRN66,AP089



BEFORE



AFTER



新築のテクノロジー

ROOF GUTTER

Customer Toyota India When 2020 Solution NKRN66,AP089



before



after

(Concrete anti falling test)

Before



After



(Concrete anti falling test)

Before



After



(Concrete anti falling test)

Before



After



Before



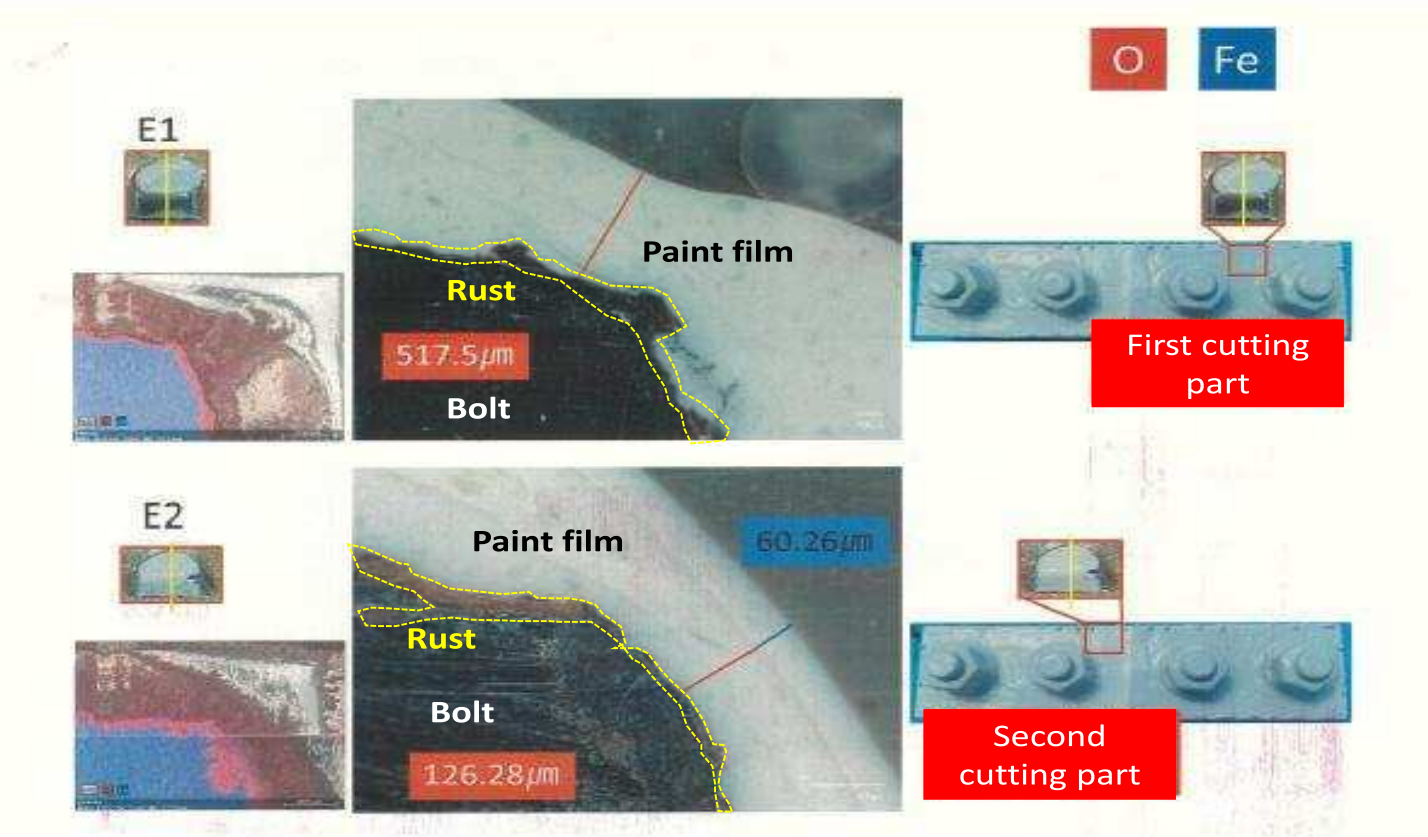
After



CCT test and vertical section on rusted bolt

SOMAY Q Technology Inc.

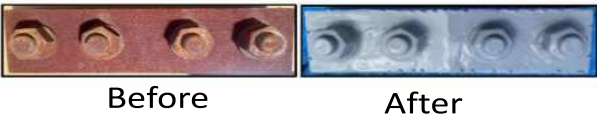
Vertical section on the rusted bolts by microscope



CONFIDEN

CCT test and vertical section on rusted bolt

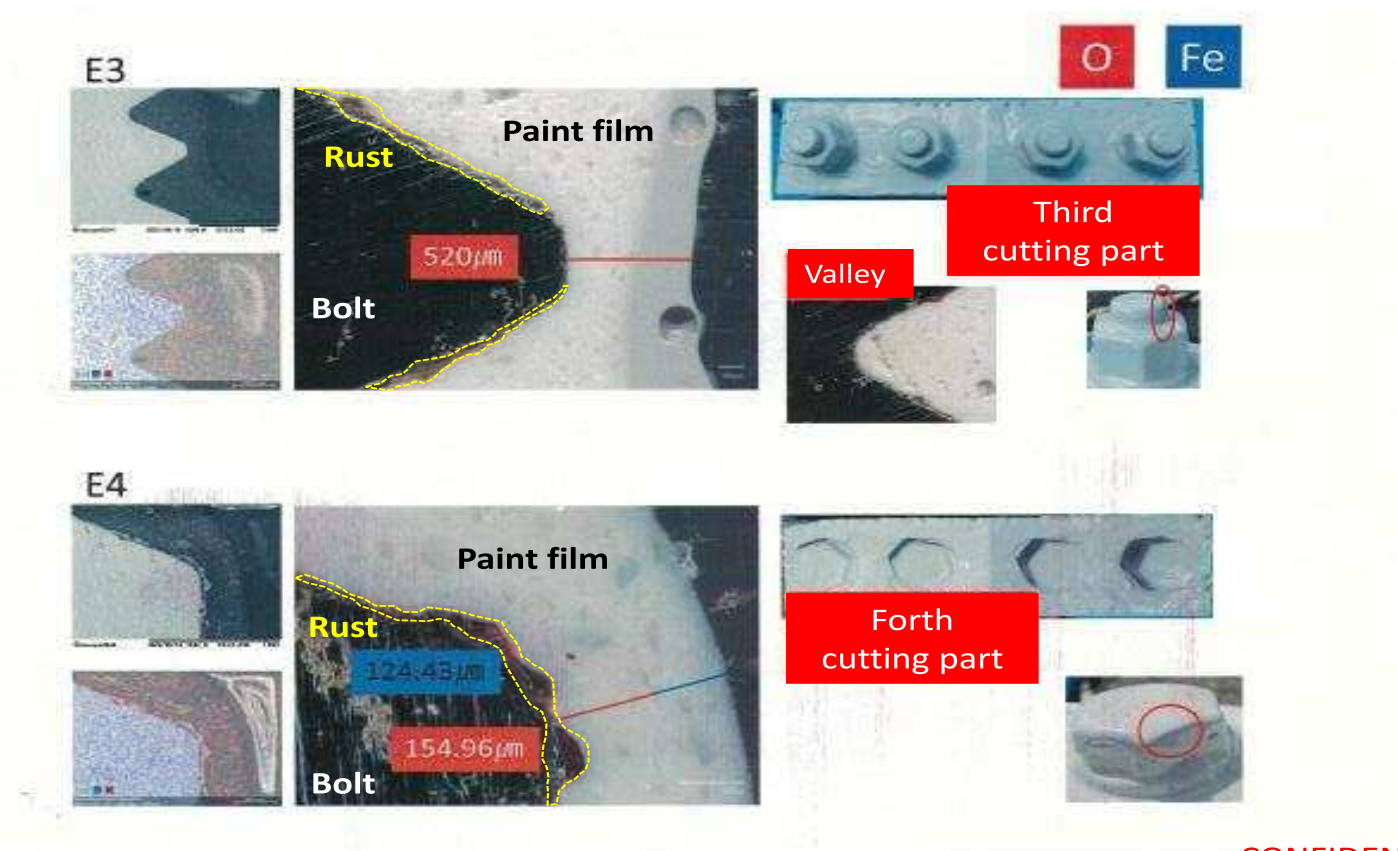
- Overview
Out of all parts of big bridges in the seaside of Japan, bolt is known as most rusted part. Under minimal surface prep such as a hand tool cleaning, we put NKRN66 as an undercoat and AP089 as a topcoat on the rusted bolt to check anti rust power with Cyclic corrosion test. Then, we looked into inner vertical section on edge parts of rusted bolt by microscope.
- Paint procedure
 - Surface preparation: Hand tool cleaning
 - Undercoat: NO MORE RUST "NKRN-66"
 - Topcoat : NO MORE RUST "AP089"
- CCT: JIS K 5621 Salt fog for 0.5hr, humidification 95% for 1.5hrs at 30°C, hot air drying at 50°C for 2hrs. Warm air drying at 30 °C for 2hrs. 333cycles.(As of December)
- Result of CCT : No rust, blister and peeling



	Initial status	CCT 1,998hrs
General view		
Painting system NKRN66+ AP089		

CONFIDENTIAL

Vertical section on the rusted bolts by microscope



CONFIDEN

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NKRN-66

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- **NKRN-66**



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NKRN-66

Anti Rust And Corrosion Solution

SCAN QR CODES WATCH Videos



Hammer test for Concrete



Repair of Heavily Degraded Stair case at JFE



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