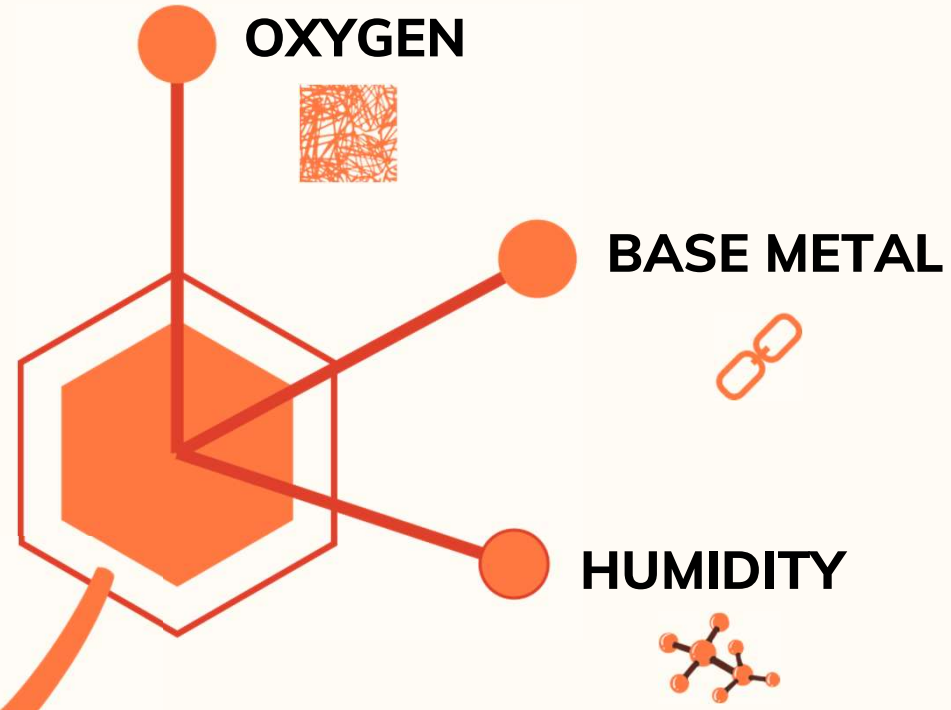

CORROSION CURE
IMMUNE your metal from ever RUSTING again!

CORROSION REQUIRES

3

COMPONENTS TO OCCUR



RUST = Fe2O3

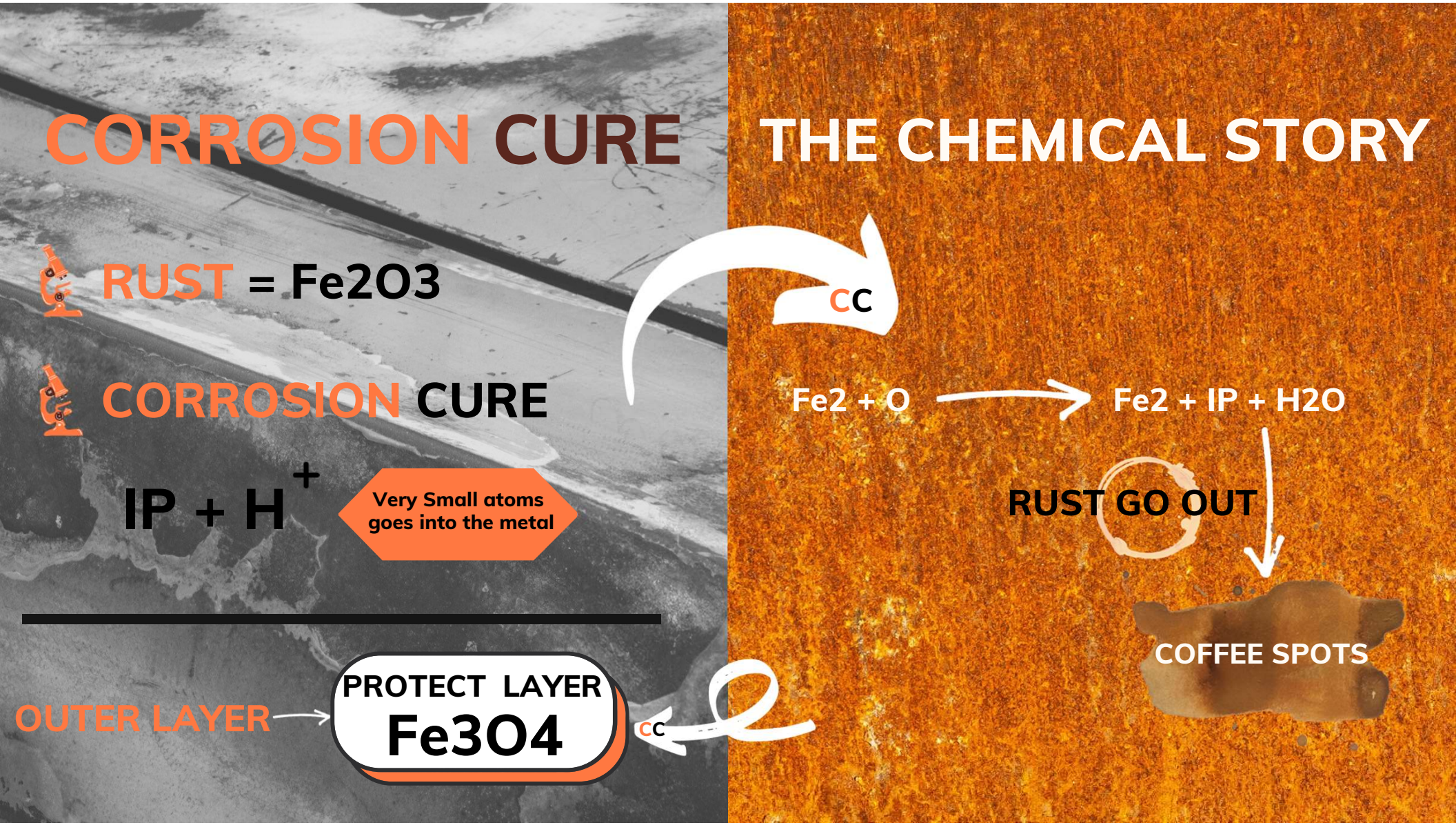
WHAT IS CORROSION CURE

Completely New approach - protecting the base metal

Is not a coating, it penetrates metal substrate

An oxygen scavenger - prevents corrosion from recurring by replacing it

Prevents loss of substance


CORROSION CURE
RUST = Fe2O3
CORROSION CURE
IP + H+
Very Small atoms goes into the metal
OUTER LAYER
PROTECT LAYER
Fe3O4
CC
THE CHEMICAL STORY
CC
Fe2 + O
Fe2 + IP + H2O
RUST GO OUT
COFFEE SPOTS

How Does it Look?

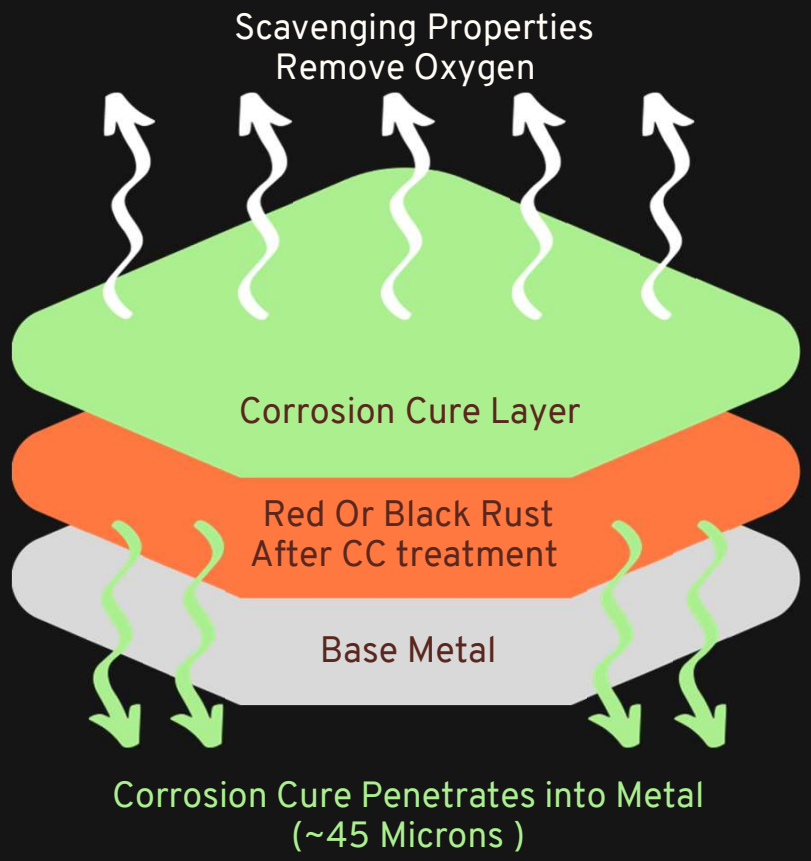
THE
PROTECT LAYER

COFFEE
SPOTS

HOW DOES CORROSION CURE WORKS?

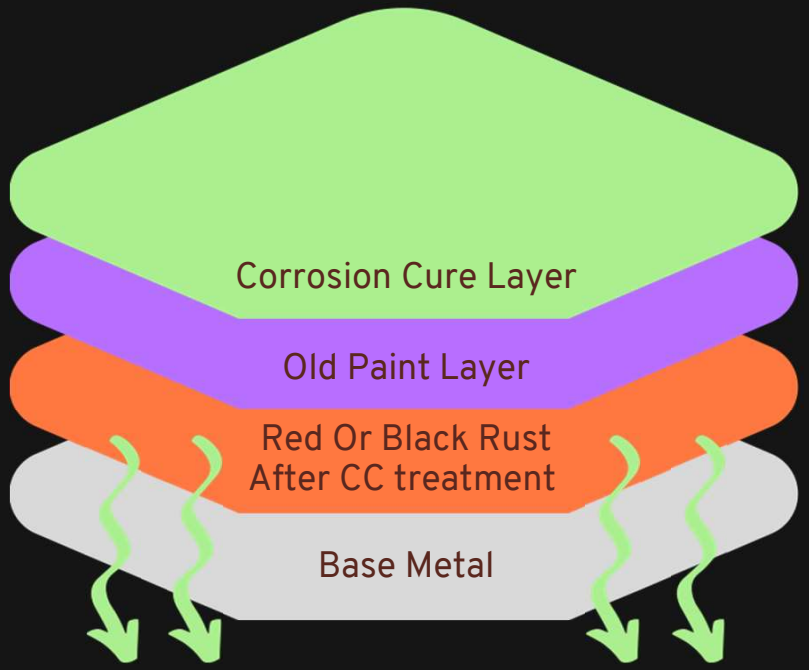
Penetrate into base METAL scavenging

Properties remove OXYGEN



CORROSION CURE
CAN BE USED WITHOUT BLASTING OR GRINDING

Saving Time and Money on your work



Corrosion Cure Penetrates into Metal
(~45 Microns)

CORROSION CURE

PENETRATION OF METAL

4 Days for penetration of 45 microns

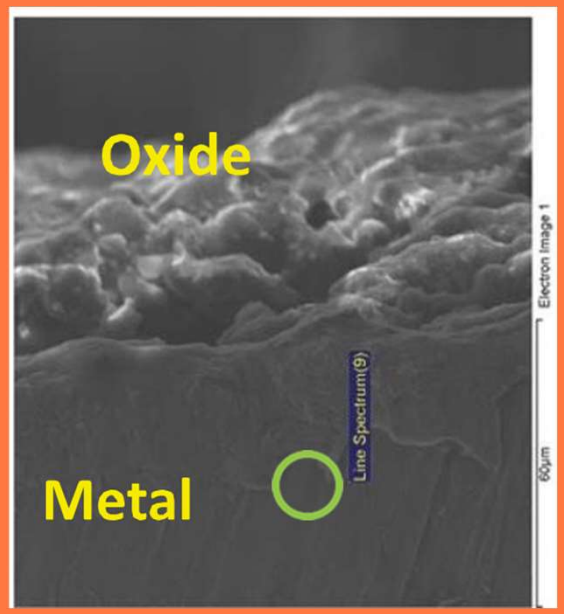
7 Days for Full penetration of metal coupon

CAL POLY

4

DAYS

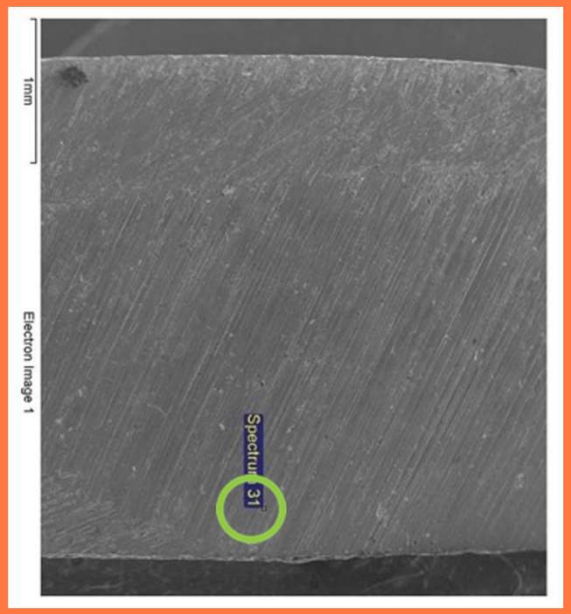
45 MICRONS



7

DAYS

FULL PENETRATION



STOPPING CORROSION

WHEN IT STARTS NOT WHERE IT ENDS

CAL POLY

ENVIRONMENT

OXIDATION LAYER (LOOK LIKE RUST)

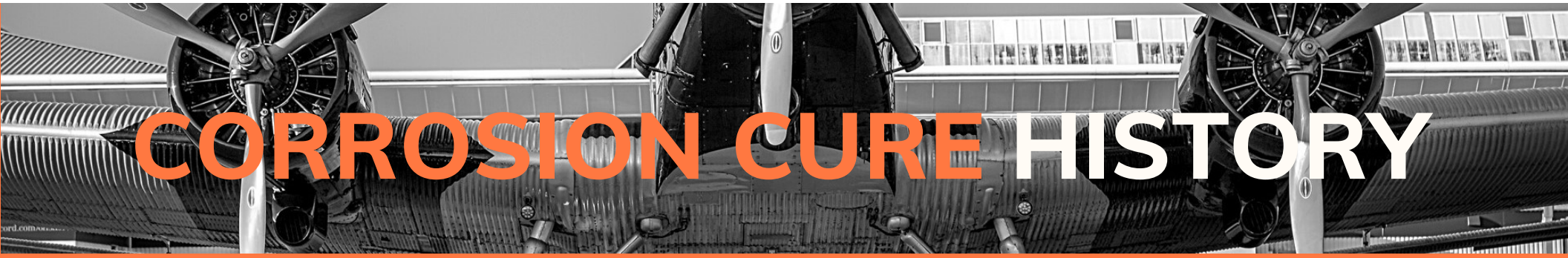
NON-CORRODED METAL LAYER

45 MICRONS BELOW CORRODED LAYER

NON-CORRODED METAL LAYER

CORROSION CURE ADVANTAGES

- Effectiveness Increases
- Water Base single component
- Environmentally Friendly
- Simple Application
- Metal Penetrating
- Harmless for workers or environment
- Covers Wide Area
- Compatible with most top coats
- Applicable in any weather



CORROSION CURE HISTORY

2010

Formula development in defence institute

2013

Commercialised the formula development & validation

2017

First Pilots into the US market

2019

Build the distribution chain into the US makret

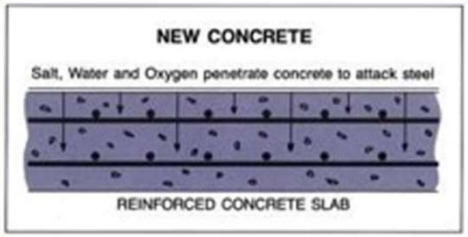
CORROSION CURE CONCRETE

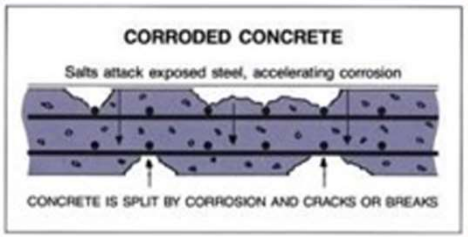
A new innovative application in final testing series

We anticipate the commercialization of the product along with the final lab testings

Failure of concrete structures is largely due to humidity, acids and sea water reaching the rebars, causing corrosion that in turn creates pressure that cracks and bursts the concrete – speeding up the process even further

Using Corrosion Cure Concrete will significantly delay the process, reducing maintenance and heavy replacement costs





CERTIFICATIONS

Occupational Health and Safety Assessment Series
ISO18001:2007
Environmental management systems
ISO14001:2015
Quality management systems
ISO9001:2015

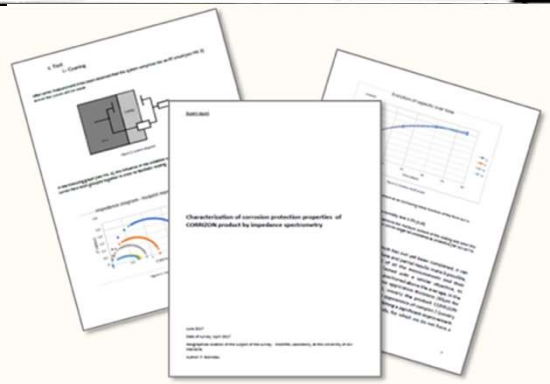
GREENGUARD
PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

Gold Standard for chemical Emissions for
Building Materials Finishes and Furnishings
UL 2818:2013

DNV GL Approved shop primer
For corrosion of steel plates and sections

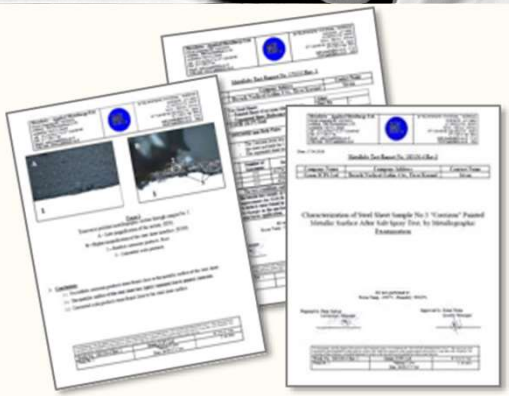
TESTS RESULTS

1000 HOURS OF SALT SPRAY TEST AND MEASURED THE THICKNESS OF METAL PLATE



MADIREL Laboratory(FR)
Characterization of corrosion protection properties of CC product by impedance spectrometry

IKA Laboratories(2006) ltd.(IL)
Microscopic examination

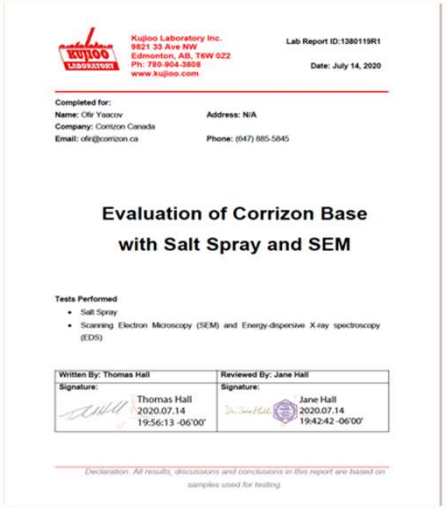


Metallabs-Applied Metallurgy Ltd.(IL)
Test of mechanical properties (tensile,bending,hardness)

CALPOLY (US)
California Polytechnic state Unv.
Penetration test

TESTS RESULTS

1000 HOURS OF SALT SPRAY TEST AND MEASURED THE THICKNESS OF METAL PLATE



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Lab Report ID:1380119R1

Date: July 14, 2020

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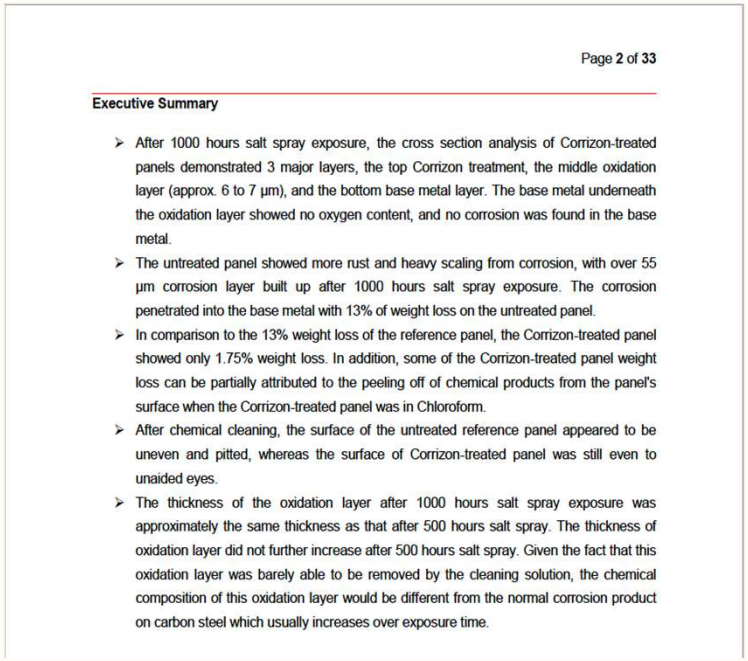
Evaluation of Corrizon Base with Salt Spray and SEM

Tests Performed
- Salt Spray
- Scanning Electron Microscopy (SEM) and Energy-dispersive X-ray spectroscopy (EDS)

Written By: Thomas Hall	Reviewed By: Jane Hall
Signature: Thomas Hall 2020.07.14 19:56:13 -06'00'	Signature: Jane Hall 2020.07.14 19:42:42 -06'00'

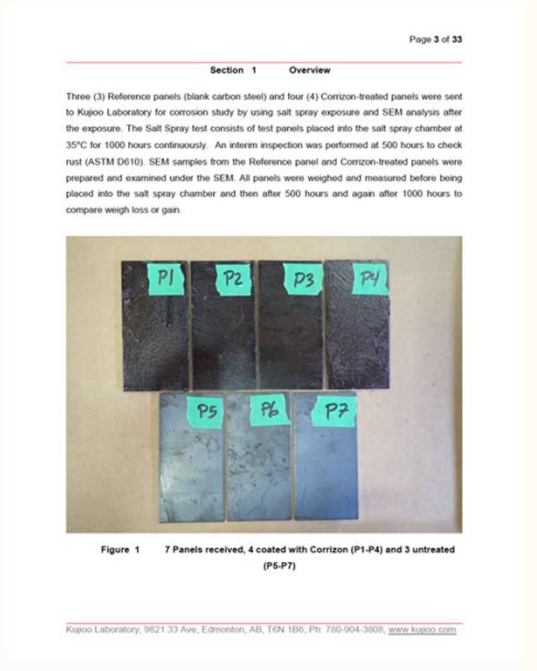
Declaration: All results, discussions and conclusions in this report are based on samples used for testing.

Kujioo laboratory (CN)
Evaluation of Corrosion Cure
With salt spray an SEM



Executive Summary

- After 1000 hours salt spray exposure, the cross section analysis of Corrizon-treated panels demonstrated 3 major layers, the top Corrizon treatment, the middle oxidation layer (approx. 6 to 7 µm), and the bottom base metal layer. The base metal underneath the oxidation layer showed no oxygen content, and no corrosion was found in the base metal.
- The untreated panel showed more rust and heavy scaling from corrosion, with over 55 µm corrosion layer built up after 1000 hours salt spray exposure. The corrosion penetrated into the base metal with 13% of weight loss on the untreated panel.
- In comparison to the 13% weight loss of the reference panel, the Corrizon-treated panel showed only 1.75% weight loss. In addition, some of the Corrizon-treated panel weight loss can be partially attributed to the peeling off of chemical products from the panel's surface when the Corrizon-treated panel was in Chloroform.
- After chemical cleaning, the surface of the untreated reference panel appeared to be uneven and pitted, whereas the surface of Corrizon-treated panel was still even to unaided eyes.
- The thickness of the oxidation layer after 1000 hours salt spray exposure was approximately the same thickness as that after 500 hours salt spray. The thickness of oxidation layer did not further increase after 500 hours salt spray. Given the fact that this oxidation layer was barely able to be removed by the cleaning solution, the chemical composition of this oxidation layer would be different from the normal corrosion product on carbon steel which usually increases over exposure time.



Section 1 Overview

Three (3) Reference panels (blank carbon steel) and four (4) Corrizon-treated panels were sent to Kujioo Laboratory for corrosion study by using salt spray exposure and SEM analysis after the exposure. The Salt Spray test consists of test panels placed into the salt spray chamber at 35°C for 1000 hours continuously. An interim inspection was performed at 500 hours to check rust (ASTM D610). SEM samples from the Reference panel and Corrizon-treated panels were prepared and examined under the SEM. All panels were weighed and measured before being placed into the salt spray chamber and then after 500 hours and again after 1000 hours to compare weigh loss or gain.

Figure 1 7 Panels received, 4 coated with Corrizon (P1-P4) and 3 untreated (P5-P7)

CORROSION CURE

CONVENTIONAL METHODS WORK PROCESS

SAVES TIME & MONEY
MORE THAN ANY OTHER PROCESS IN THE MARKET

15 DAYS

- TOP LAYER PAINTING
- CLEANING WITH WATER PRESSURE AND APPLICATION OF CORROSION CURE AT COMPLICATION

10 DAYS

- SAND BLAST CLEANING

25 DAYS

- AIR WASH
- EVACUATION OF SAND
- BASE PAINT

32 DAYS

- INTERMEDIATE LAYER PAINTING

39 DAYS

- TOP LAYER PAINTING

CORROSION CURE

CONVENTIONAL METHODS WORK PROCESS

SAVES TIME & MONEY
MORE THAN ANY OTHER PRODUCT IN THE MARKET

MAXIMUM 3-4 WORKERS PER DAY
WORKER COST PER DAY ~ 194$

39 DAYS

TOP COLOR PAINT LAYER
COST FOR
7 DAYS - 12K $

32 DAYS

INTERMEDIATE PAINT LAYER
COST FOR
7 DAYS - 17K $

25 DAYS

SAND CLEANING AND FOUNDATION
PAINT LAYER COST FOR
25 DAYS - 56 K $

10 DAYS

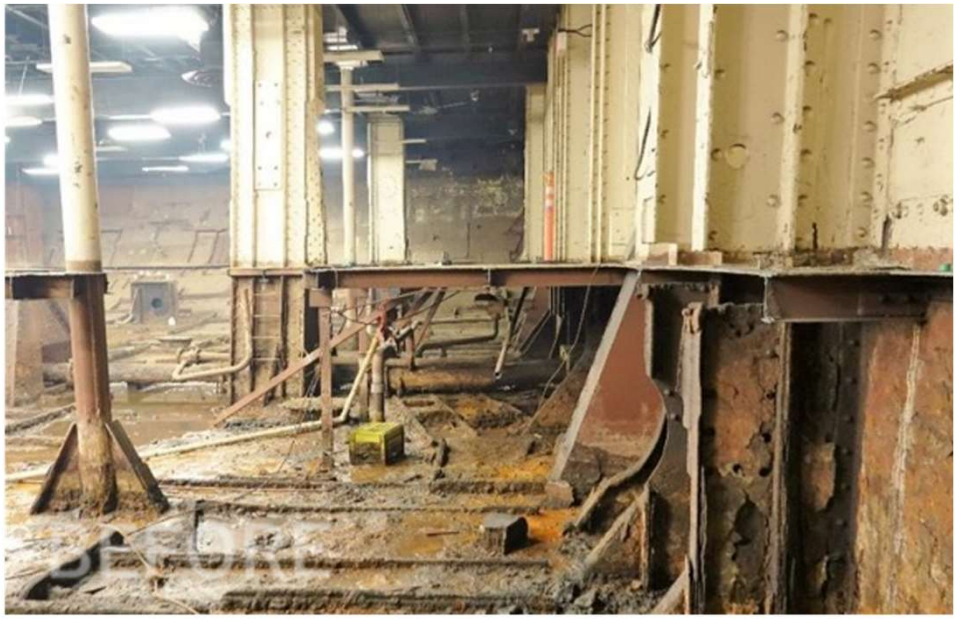
TOP COLOR PAINT LAYER COST FOR
7 DAYS - 12K $

INTERMEDIATE PAINT LAYER COST FOR
7 DAYS - 17K $

HIGH WATER PRESSURE CLEANING AND CC
IMPLEMENTATION COST FOR
10 DAYS - 36K $

CORROSION CURE INDUSTRIES

QUEEN MARY
PRIMARY HULL RENOVATION



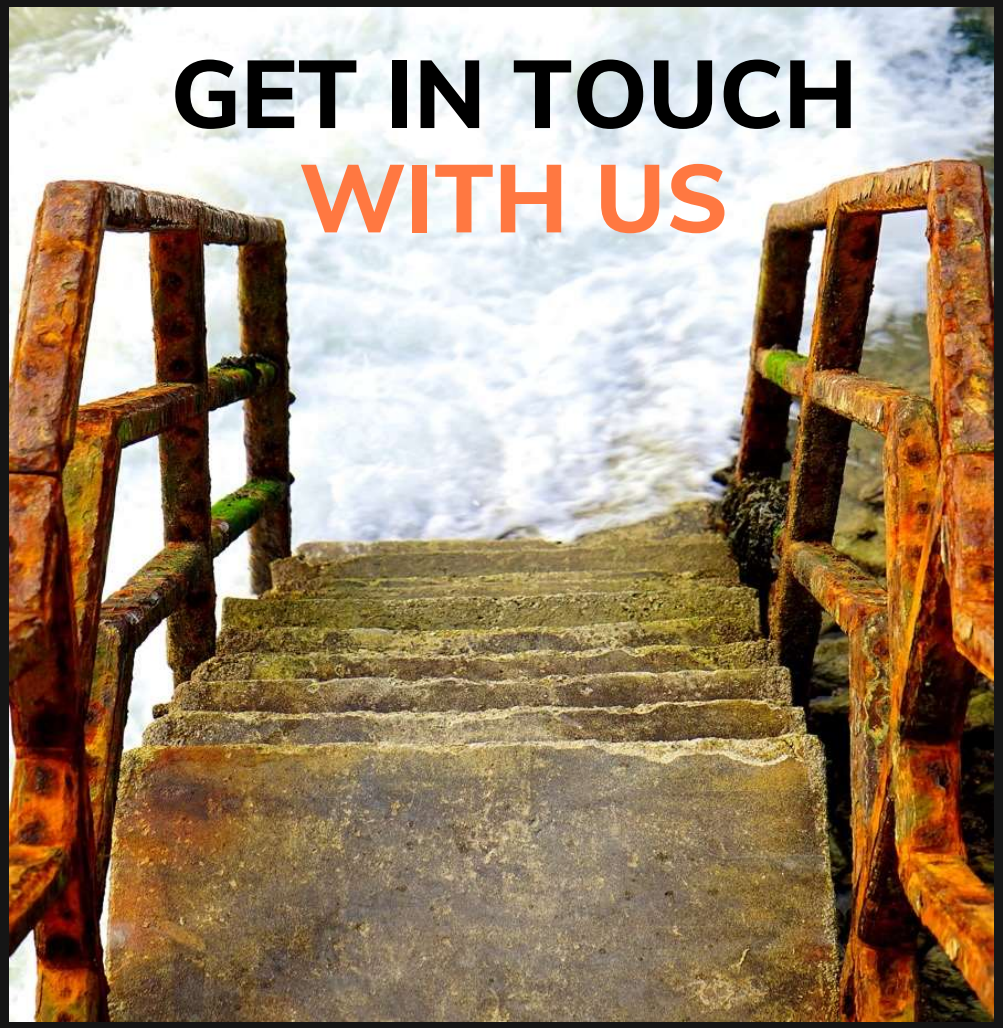
Extreme pitting, shedding, and biological corrosion

Sandblasting, hand tooling, needle gun, were not to be used due to the to conditions of the metal

Project completed under budget due to application process's simple learning curve

Material usage lessened during the length of the job as the crew got more experienced

MARITIME & DEFENCE



C

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