

11/16/2020

Examination: Results and first stage of testing Corrosion Cure

1. General:

- 1.1. The Corrosion Cure product advantages: easy application, environmentally safe, corrosion resistant and cost effective price.
- 1.2. In order to test both effectiveness and the application procedure, an experiment was scheduled with the Corrosion Cure company.
- 1.3. First test results in the field and after full dryness are documented in this report.

2. Test results in the field:

- 2.1. The product was applied at the warehouse (Facility 136) - simultaneously on container F-405, tower E-631 and chimney.
- 2.2. In addition, the product was applied also on a dome- 305-c-125.
- 2.3. At the warehouse – the product was easy to work with and produced a solid thin layer on objects including pipes, plates and arches.
- 2.4. All the objects had rust in depth of 0.05-0.1 millimeters – Objects were power washed before the application procedure.
- 2.5. The experiment is documented in pictures 1,2,3,4 on date 10/21/2020.
- 2.6. Good results on facility 136, except a single pipe on tower E-631 – the depth of the rust prevented a proper application.

3. Test results after full dryness – according to ASTM standard to DRY FILM:

- 3.1. Standard checks of depth and adhesion** were done after full dryness on date – 11/3/2020.
- 3.2. Depth and adhesion** tests meet the requirements of manufacturer specifications – 70-100 μ .
- 3.3. Pipe on tower E-631 with deep rust (approximately 1 millimeter) – did not pass.
- 3.4. Test results are documented on pictures 5,6,7
- 3.5. Good results on dome 305-c-125

** Adhesion testing is not relevant for Corrosion Cure especially when it is applied on heavily rusted objects as it is not a paint. This was explained before tests started. The refinery has decided to run the adhesion tests anyway and the results are therefore as expected.

4. First stage experiment conclusion and outlook for future trials with Corrosion Cure:

5.

- 5.1. Experiment stage – first tests and application passed successfully.
- 5.2. It is important to note that the product was safe and easy to use
- 5.3. Final test results will be available in January 2021 – 3 months after the experiment.
- 5.4. Test results will be confirmed on the two major relevant coating checks – metallurgy and visual.
- 5.5. There will be extensive applications for this product.
- 5.6. Detailed plans for future programs and expanded experiments with Corrosion Cure will be discussed after results are evaluated in January 2021

Best regards,
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Pictures from different stages of the experiment:

1. Corrosion Cure paint on plate



2. Corrosion Cure paint on pipe



3. Different objects

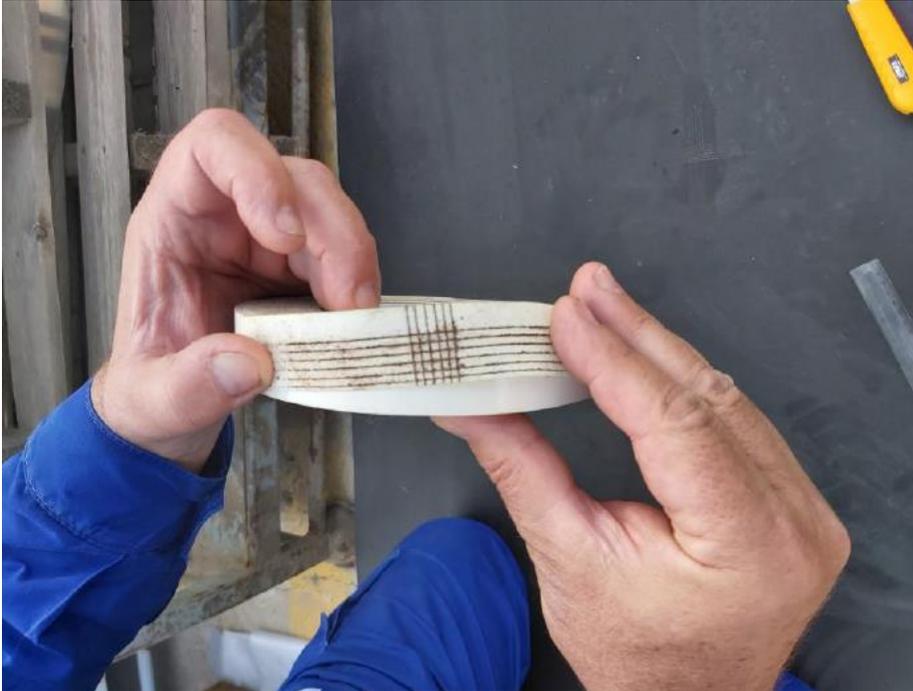


4. Faucet on facility 136



Pictures from test results:

5. Adhesion test



6. panel depth paint test



7. Inappropriate coating of adhesion test

