



Case History for Indoor Storage at Metals Reclaimer

HT 365 Preservation Coating

Background

- Customer reclaims scrap metal and in 2015 purchased these frac blocks and other metal equipment as “scrap” from the local facility of a Houston-based, major oilfield equipment manufacturer and supplier.



- This equipment was originally intended to be used in South Texas for fracturing-style of horizontal drilling.
- Unfortunately, the drop in oil prices caused this equipment to become expendable.
- Customer purchased the parts as scrap and decided to preserve their condition, recertify them and eventually sell the parts when the market rebounds.
- The parts were originally very expensive and if well maintained provide a healthy profit to Customer in the future.



Corrosion Issue

- **The problem:** rust forming on equipment can render it unusable and destroy value.
- Machine finished, steel “frac” blocks were being stored outside in an unpainted state. With exposure to rain, UV and temperature, unprotected steel begins to develop rust bloom.
- This rust was occurring both on the body of the block and on threaded areas.
- Corrosion is especially detrimental to the threaded areas in the block, potentially rendering the block unusable because of the minimal tolerance of the threads to physical surface change that rust can cause.



Corrosion Solution

- Customer spray applied film of **HT 365**
- **HT 365** was applied with a pump-style garden sprayer at a .4-.5 mil dft on the body of the block with particular attention to threaded areas.

- The blocks were stored in a warehouse where the temperature and humidity is not controlled.
- No further maintenance required
- Date of application: March 2015
Date of observation: May 29, 2015
- Customer shared 6 months later that **HT 365** continued to protect the steel.



Result: After nine months, all surfaces coated with **HT 365** were rust-free, especially in the threaded areas. This result preserves the functionality of the block and value for eventual resale.

