

TC-11[®] Corrosion Inhibitor

Versus

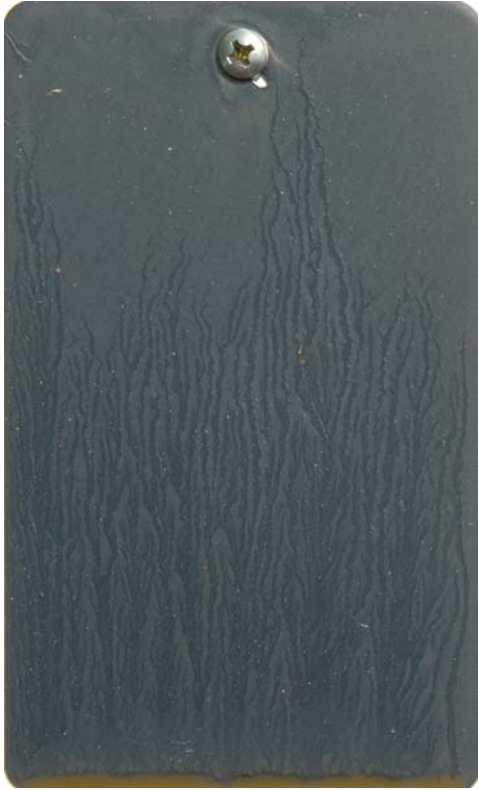
**WD-40[®], Tri-Flow[™], and
Boeshield[®] T-9**

July 2006

Corrosion Test Methodology

- 1. Identical Type S Steel Q-Panels are chemically cleaned and treated once with a competing product.**
- 2. The Q-Panels are mounted in a vertical position for 24-hours.**
- 3. The Q Panels are mounted on a test panel.**
- 4. The Q-Panels are exposed to identical environmental exposures – full tropical sunlight, intermittent rainfall, a salt breeze, and a nightly condensation cycle.**
- 5. The Q Panels are photographed at 24-hour intervals using sunlight as the light source.**

Start of Test



TC-11



WD-40



Tri-Flow



Boeshield T-9

Day One



TC-11



WD-40



Tri-Flow



Boeshield T-9

Day Two



TC-11



WD-40



Tri-Flow



Boeshield T-9

Day Three



TC-11



WD-40

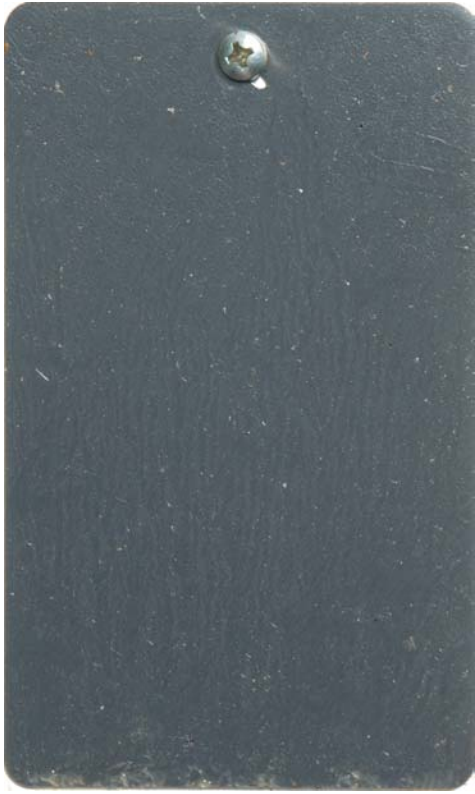


Tri-Flow

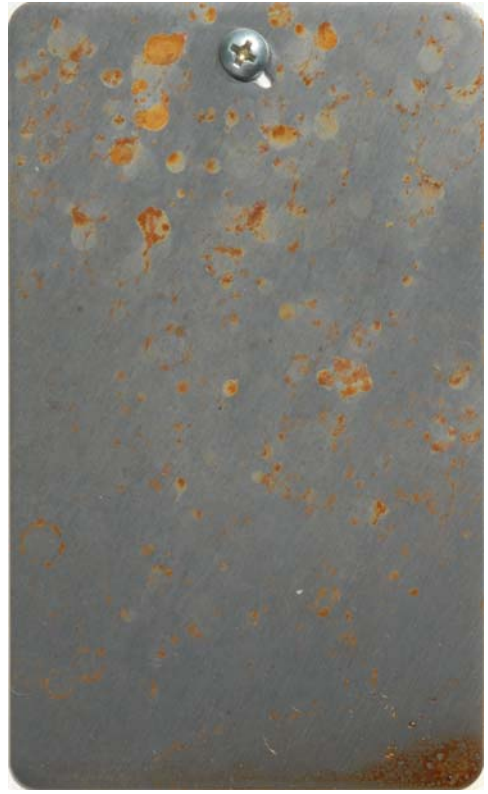


Boeshield T-9

Day Four



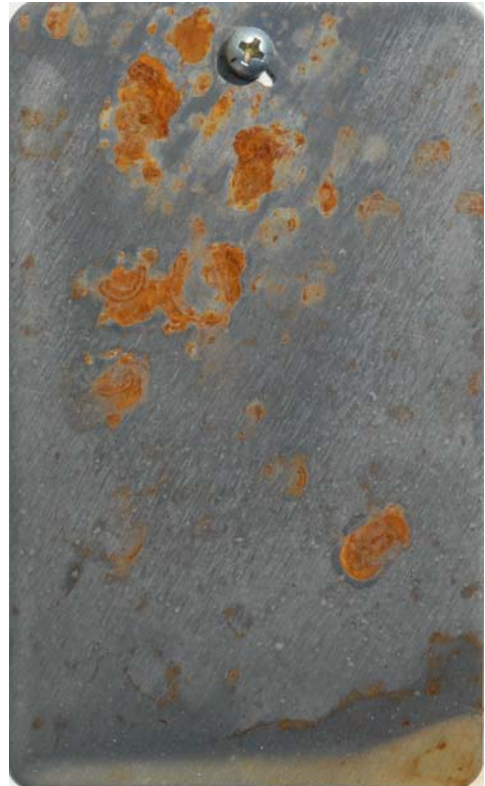
TC-11



WD-40



Tri-Flow

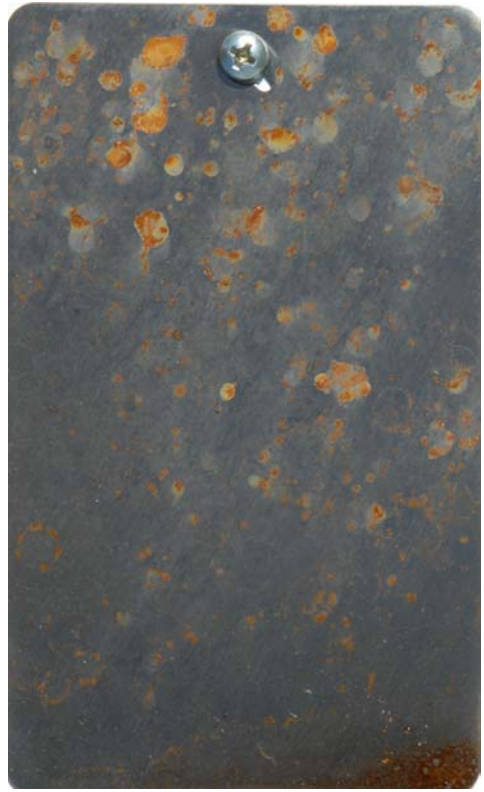


Boeshield T-9

Day Five



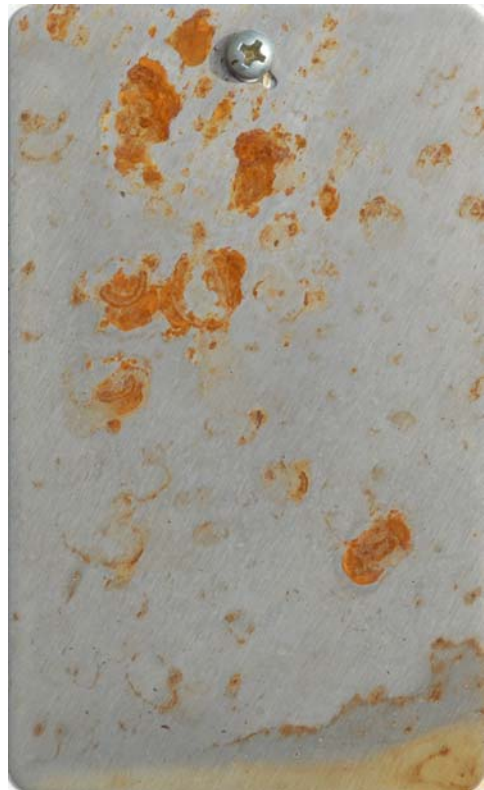
TC-11



WD-40



Tri-Flow

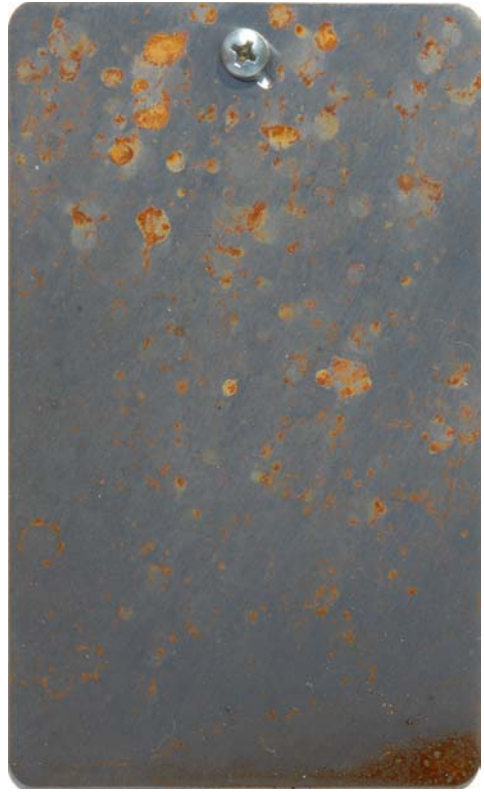


Boeshield T-9

Day Six



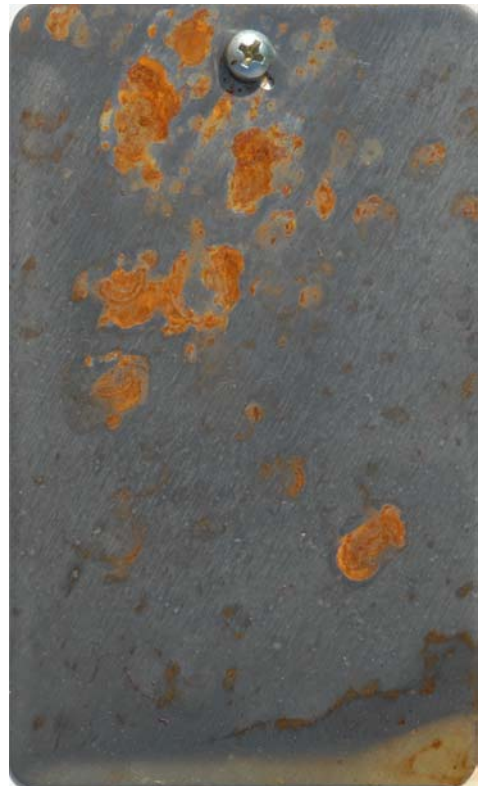
TC-11



WD-40



Tri-Flow

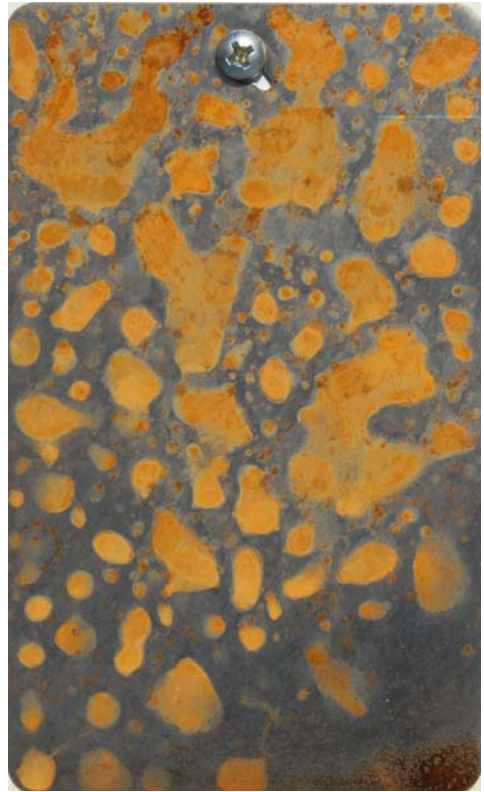


Boeshield T-9

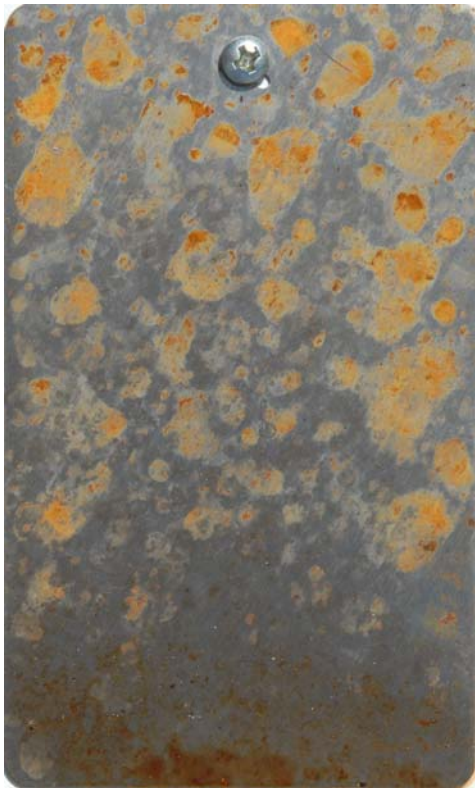
Day Seven



TC-11



WD-40



Tri-Flow

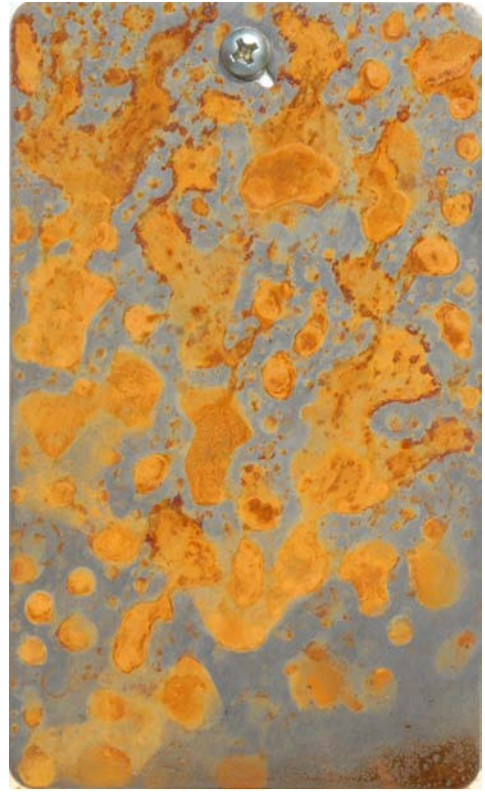


Boeshield T-9

Day Eight



TC-11



WD-40



Tri-Flow

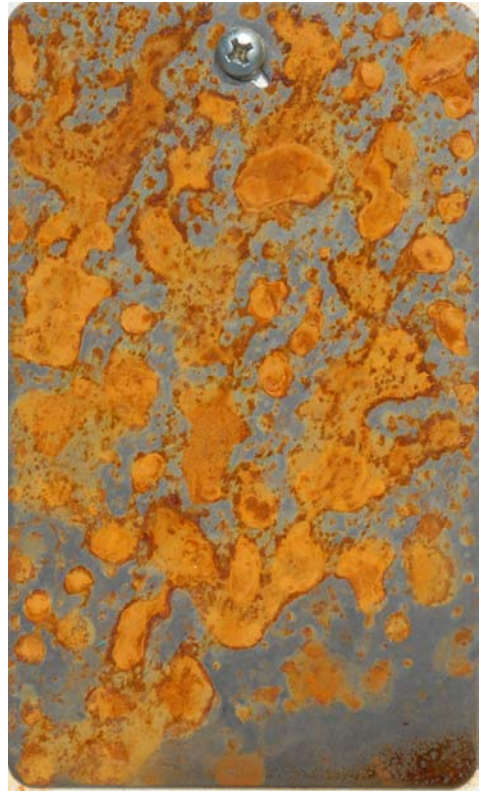


Boeshield T-9

Day Nine



TC-11



WD-40



Tri-Flow

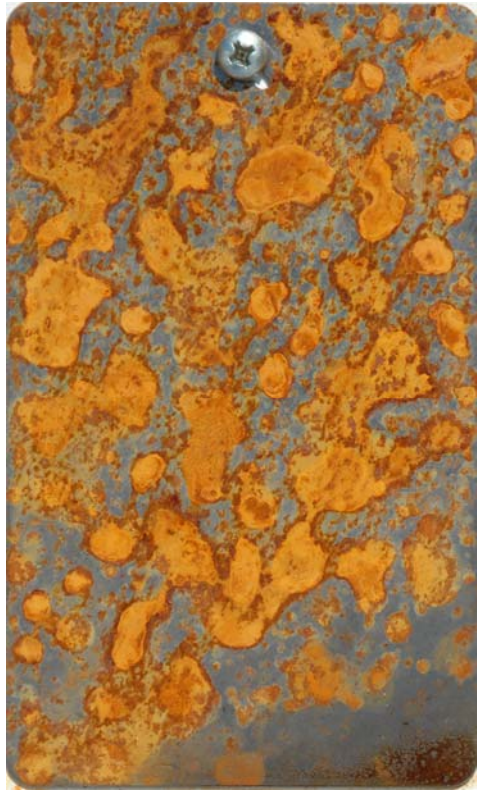


Boeshield T-9

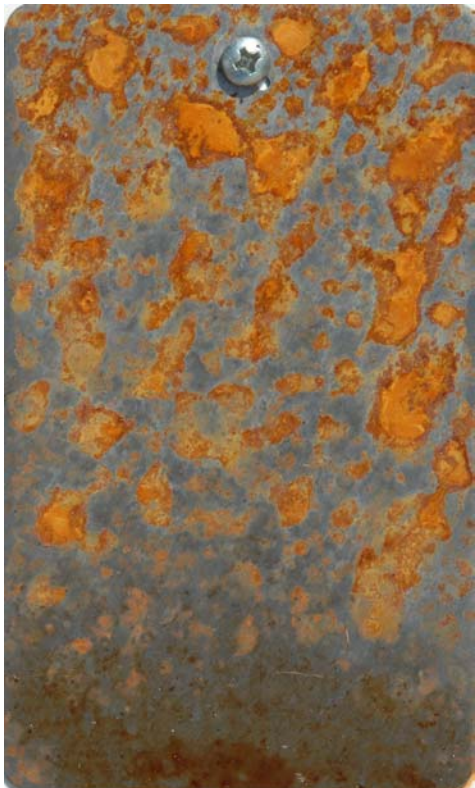
Day Ten



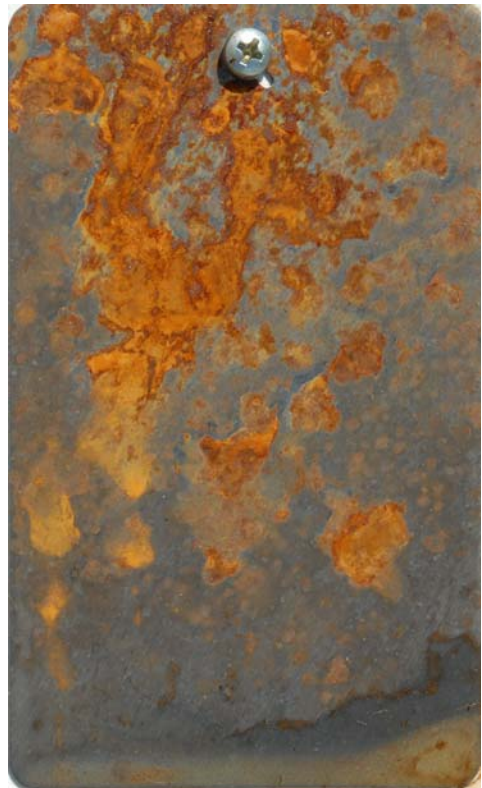
TC-11



WD-40



Tri-Flow

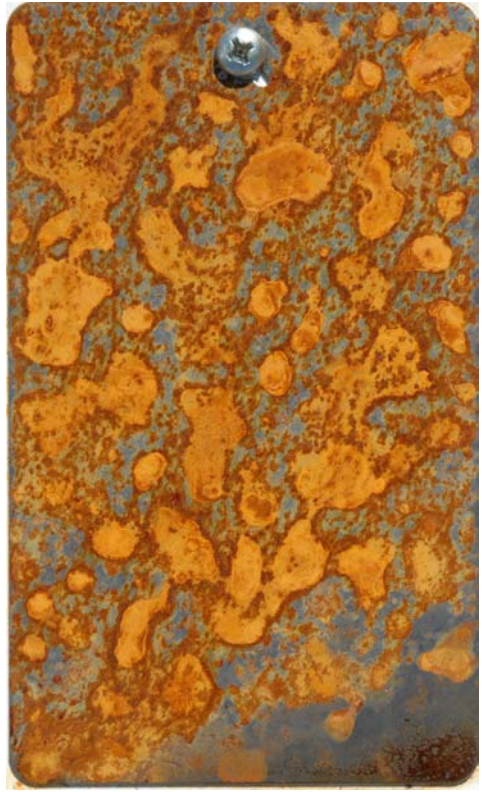


Boeshield T-9

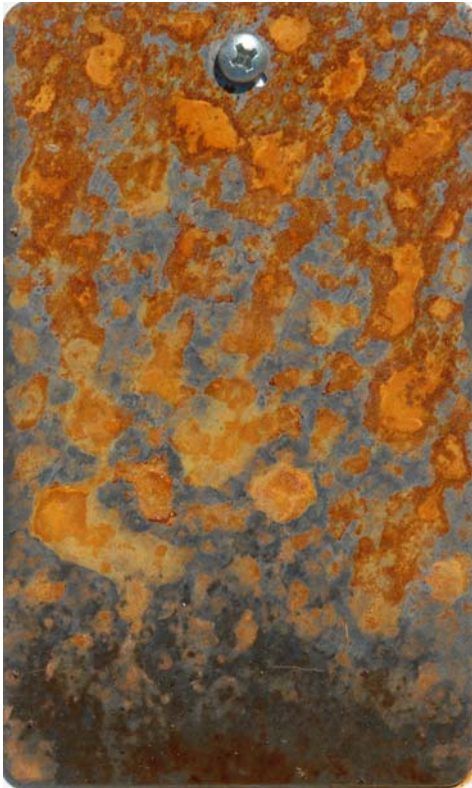
Day Eleven



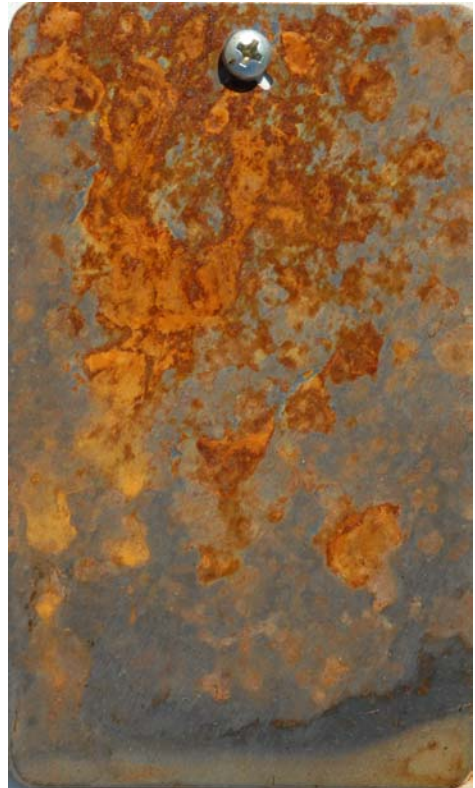
TC-11



WD-40



Tri-Flow

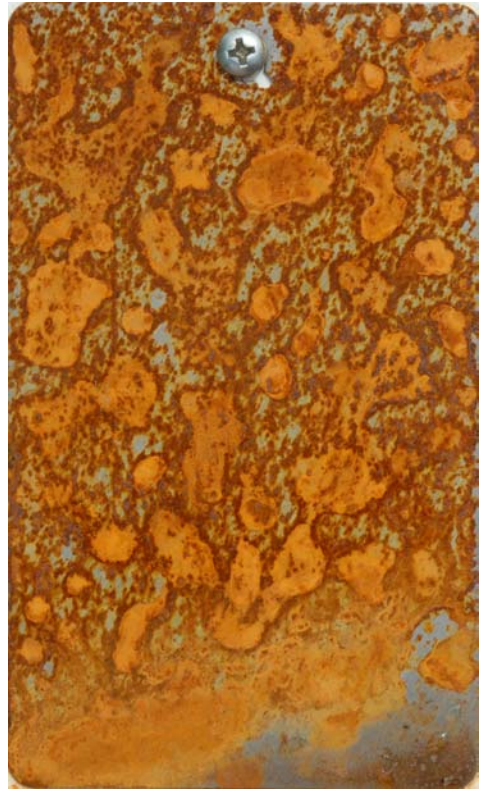


Boeshield T-9

Day Twelve



TC-11



WD-40



Tri-Flow

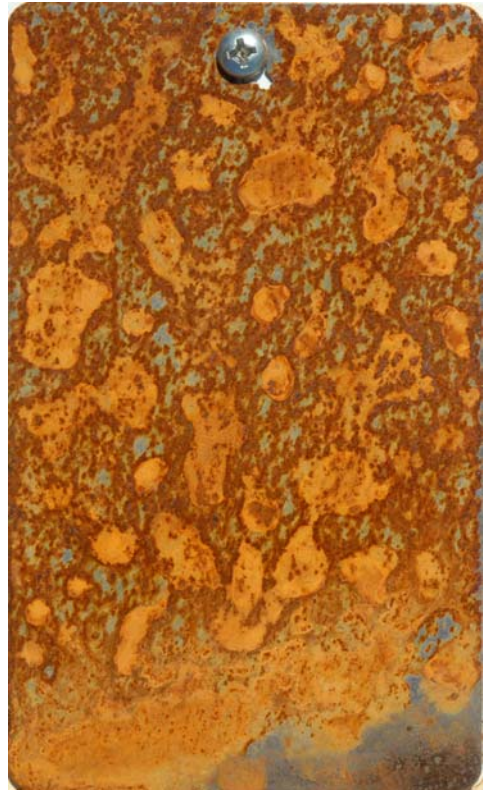


Boeshield T-9

Day Thirteen



TC-11



WD-40



Tri-Flow

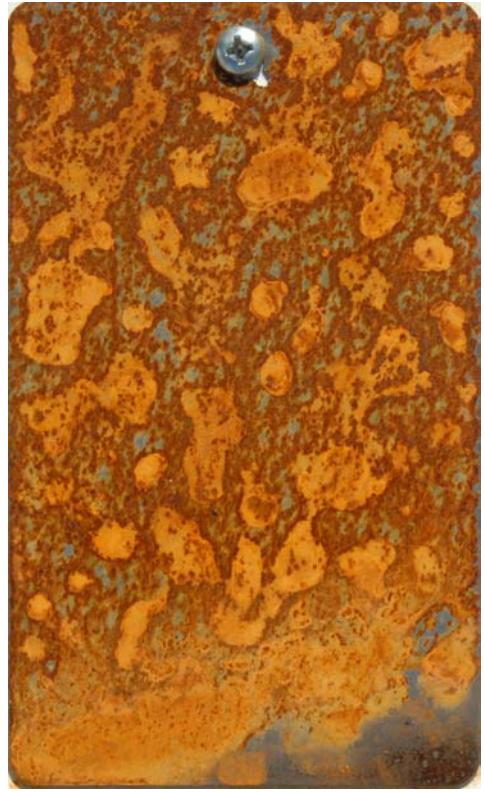


Boeshield T-9

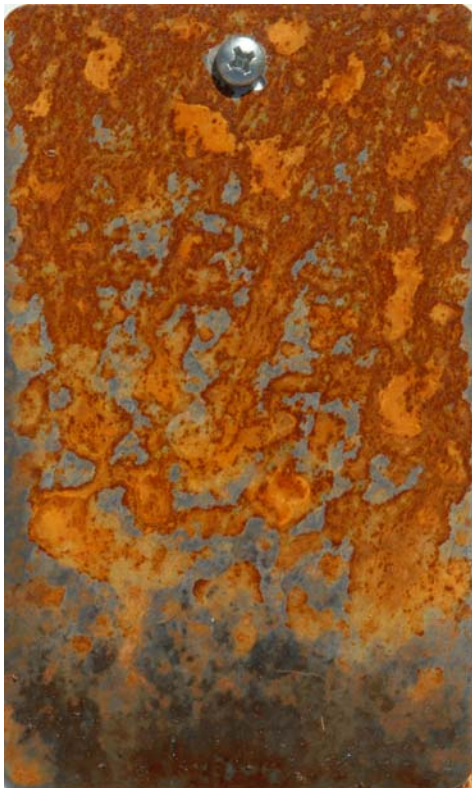
Day Fourteen



TC-11



WD-40



Tri-Flow

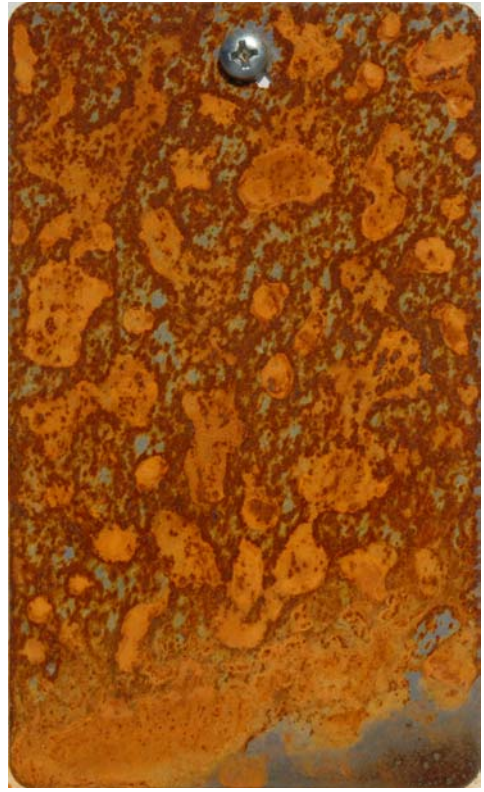


Boeshield T-9

Day Fifteen



TC-11



WD-40



Tri-Flow

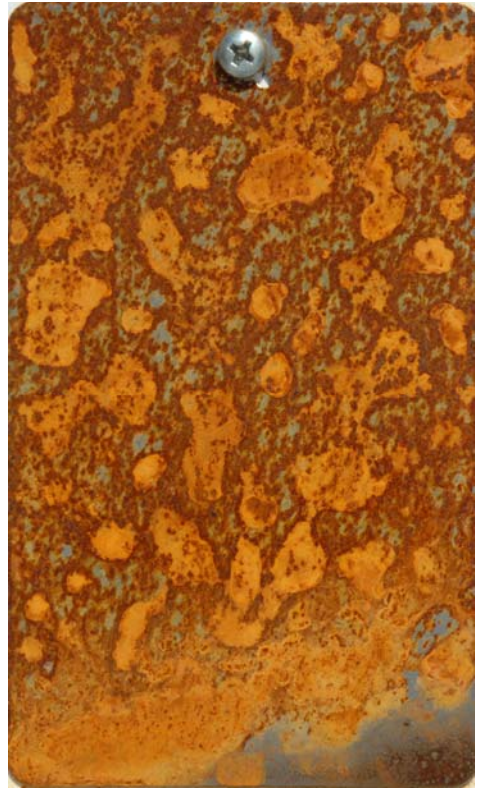


Boeshield T-9

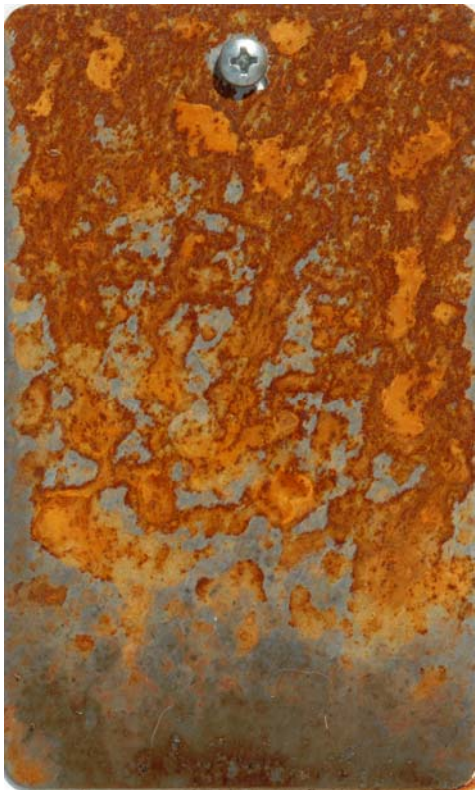
Day Sixteen



TC-11



WD-40



Tri-Flow

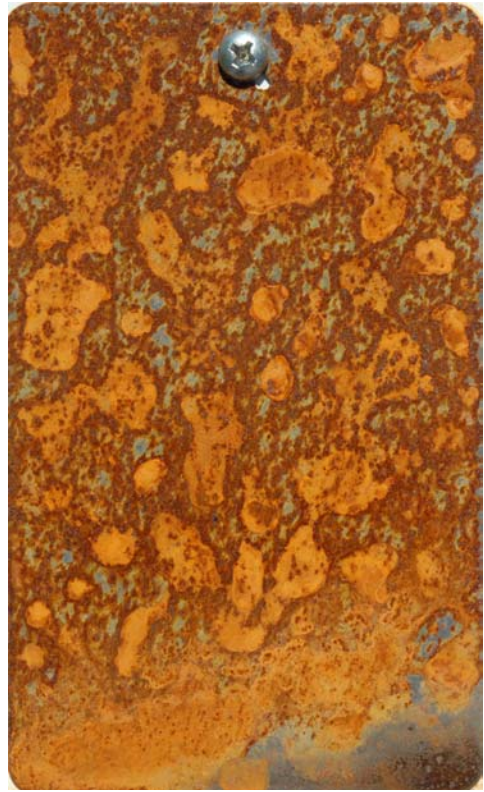


Boeshield T-9

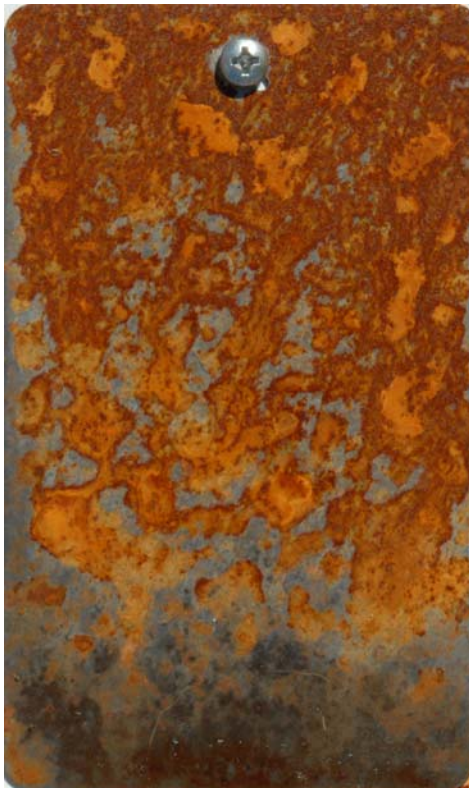
Day Seventeen



TC-11



WD-40



Tri-Flow

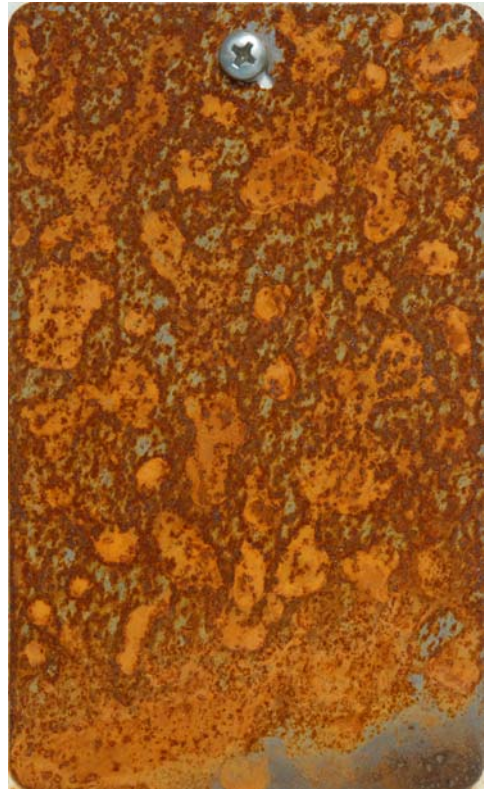


Boeshield T-9

Day Eighteen



TC-11



WD-40



Tri-Flow

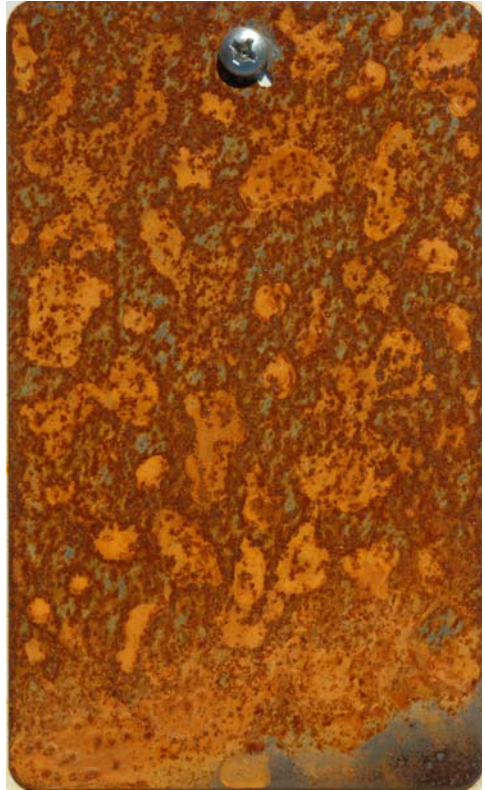


Boeshield T-9

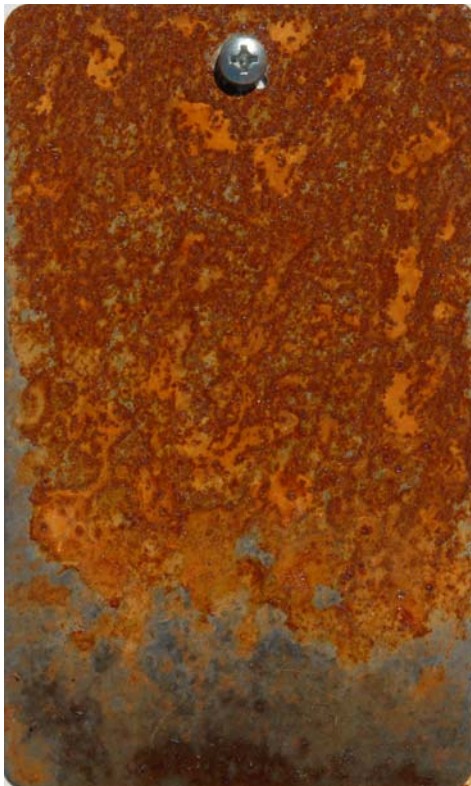
Day Nineteen



TC-11



WD-40



Tri-Flow

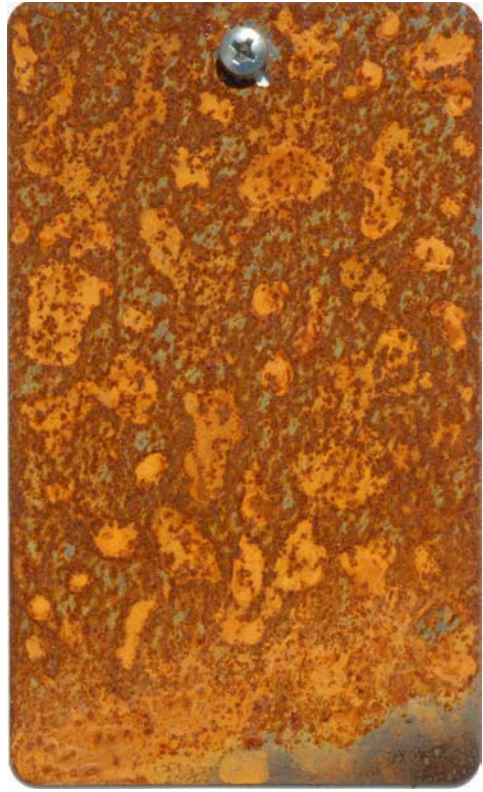


Boeshield T-9

Day Twenty



TC-11



WD-40



Tri-Flow

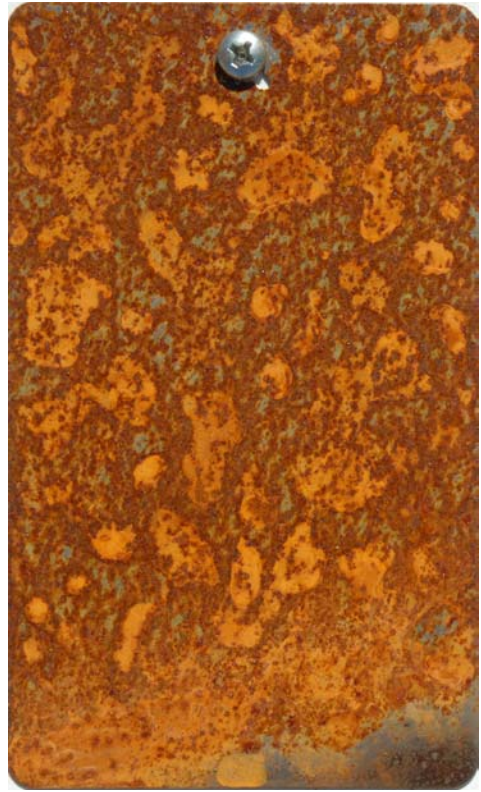


Boeshield T-9

Day Twenty-One



TC-11



WD-40



Tri-Flow

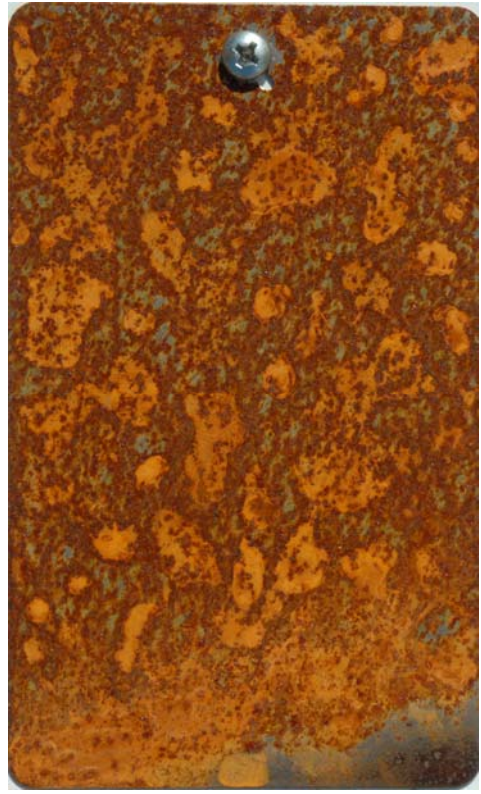


Boeshield T-9

Day Twenty-Two



TC-11



WD-40



Tri-Flow

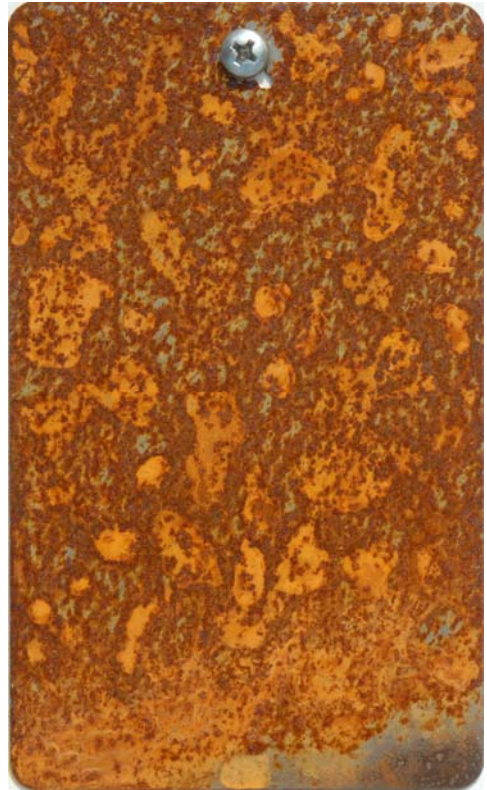


Boeshield T-9

Day Twenty-Three



TC-11



WD-40



Tri-Flow

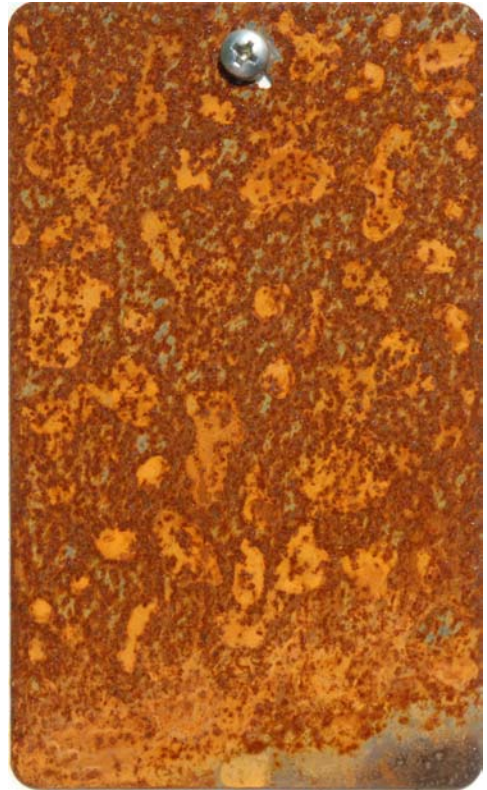


Boeshield T-9

Day Twenty-Four



TC-11



WD-40



Tri-Flow

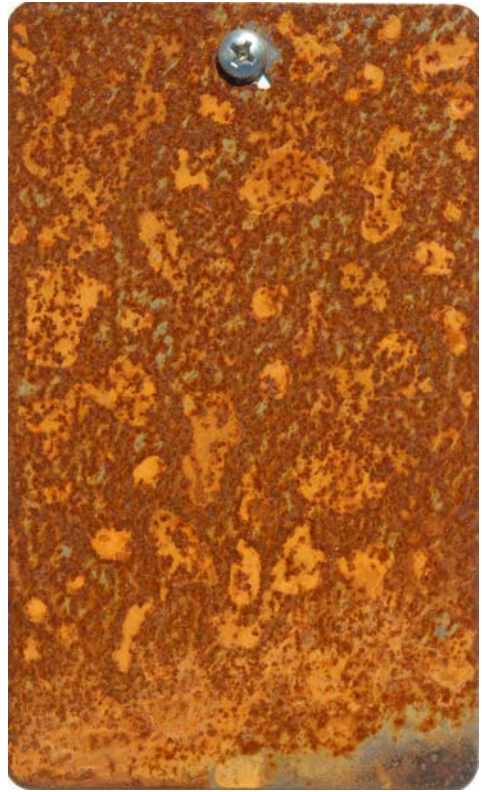


Boeshield T-9

Day Twenty-Five



TC-11



WD-40



Tri-Flow

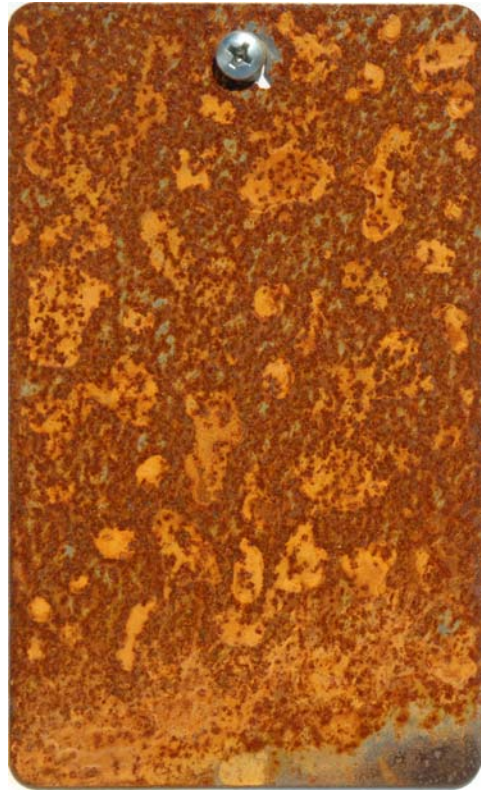


Boeshield T-9

Day Twenty-Six



TC-11



WD-40



Tri-Flow

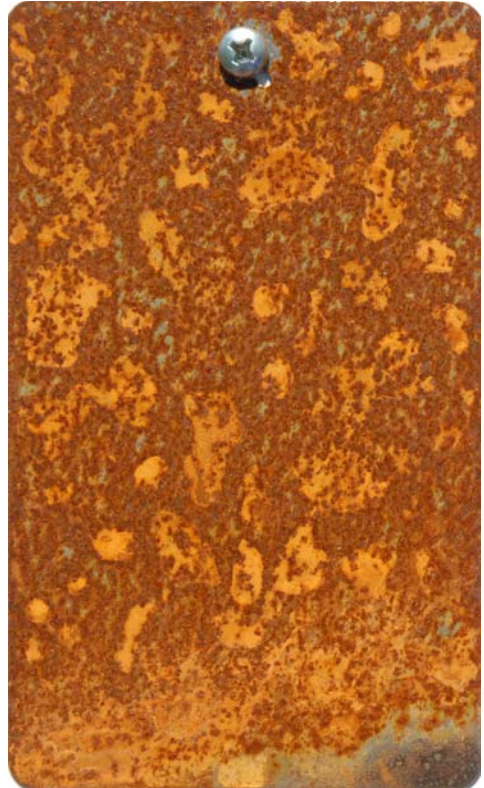


Boeshield T-9

Day Twenty-Seven



TC-11



WD-40



Tri-Flow



Boeshield T-9

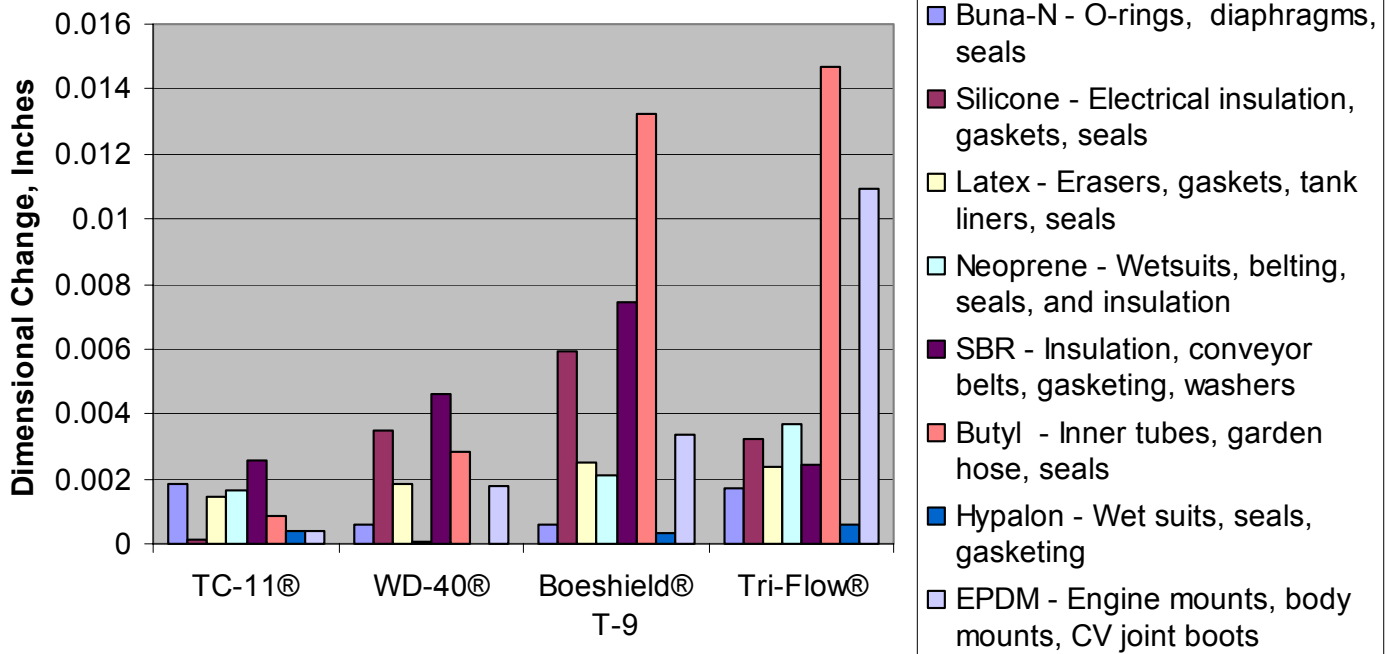
Corrosion Test Conclusions

- 1. Boeshield T-9 failed after three days of exposure.**
- 2. WD-40 failed after four days of exposure.**
- 3. Tri-Flow failed after five days of exposure.**
- 4. TC-11 failed after 24 days of exposure.**
- 5. TC-11 offers significantly better corrosion control performance than Boeshield T-9, WD-40, and Tri-Flow.**

Compatibility Testing Methodology

- Test coupons were 1” diameter x ½” thick pieces of elastomer.**
- The thickness of each coupon was measured with a digital micrometer.**
- The coupon was treated once with a product.**
- The thickness of the coupon was measured for a two week period with a micrometer.**
- The thickness of an untreated coupon was measured for a two week period.**
- The difference in the dimensional changes between the treated coupon and the untreated coupon was calculated.**
- The test results were plotted on a graph in the order of performance.**

Compatibility Test Results



Compatibility Test Conclusion

TC-11 is more compatible with the sensitive elastomers tested than WD-40, Tri-Flow, or Boeshield T-9.