

PRO-PRIME 203

ANTI-CORROSIVE EPOXY PRIMER

PRODUCT INFORMATION SHEET



INTRODUCTION

PRO-PRIME 203 is an epoxy anti-corrosive primer. Other than its high inhibitive load, it also contains ion arresting silicas.

USE

- (a) Protection of metals: Steel, galvanized steel, stainless steel, aluminum.
- (b) Galvanic corrosion barrier between dissimilar metals and between stainless steel and carbon.

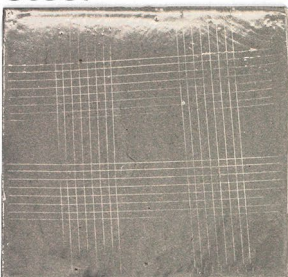
FEATURES

- Heavy metal and chromate free,
- High inhibitor load,
- 2-to-1 by volume,
- fast curing,
- for use above and below the waterline,
- colours: Off-white, grey, light blue, light green.

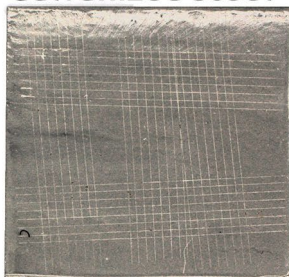
ADHESION TEST

The Cross hatch test is carried out in accordance to ISO 2409 / ASTM D 3359 on various metals. The procedure is as follows: One coat of PRO-PRIME 203 is rolled on the tabs. After 48 hours at 25° C, we use a special tool to cut a right angle lattice pattern onto the coating reaching the substrate. A high strength tape is pressed on to the pattern in order to develop a good bond. The tape is removed forcefully and the test plates are graded according to the number of squares that have been removed by this process:

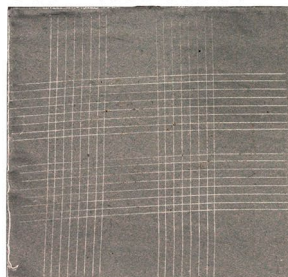
Steel



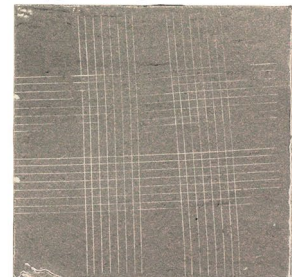
Galvanized steel



Stainless steel



Aluminum



Result: GT0 (ISO 2409) / 5B (ASTM D 3359), zero detachments.

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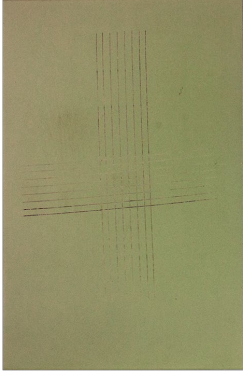
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We have also run this test for the case of “poorly prepared metals”, black steel in this case, no fairing just a basic solvent wipe. The result is unchanged, no detachments at all:

Sprayed



Rolled



CORROSION RESISTANCE

Here we present a common comparative qualitative test between PRO-PRIME 203 and two competitor primers. The test plates are again rolled with one coat of each primer and, after 48 hours at 25° C, a straight line is carved on each plate. They are then dipped into saltwater (3.5% NaCl) for 10 days. Finally, a visual inspection is carried out in order to grade each plate according to the coating’s ability to limit the spread of corrosion.

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Result: PRO-PRIME 203 fares very well compared to the two competitor primers.

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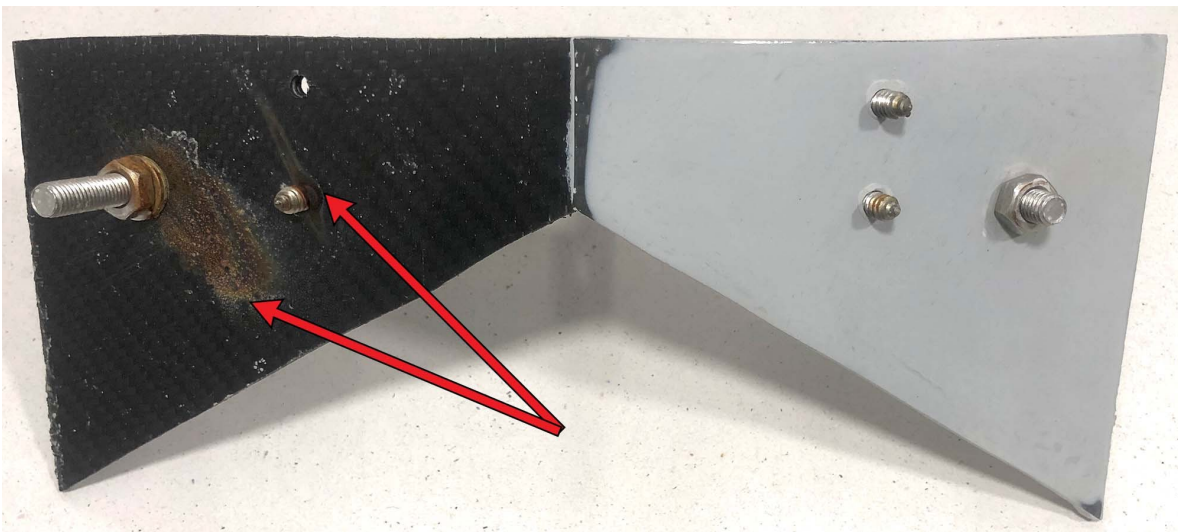
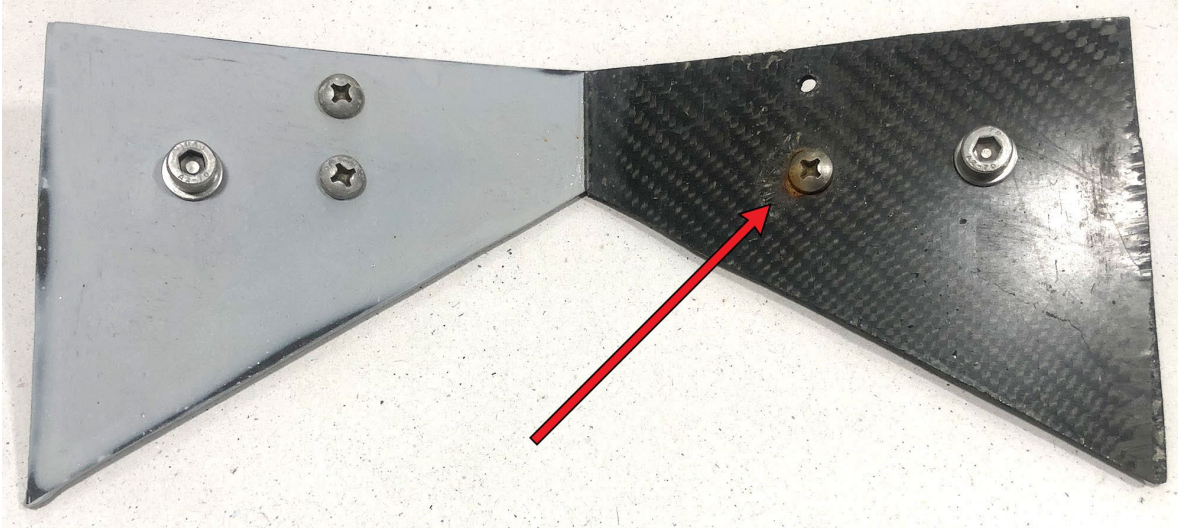
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GALVANIC CORROSION BLOCKER

In this test, we demonstrate the capability of PRO-PRIME 203 as a galvanic corrosion blocker between carbon fiber and stainless steel. The specimen is dipped into saltwater (3.5% NaCl) for 10 days.



PRO-PRIME 203 inhibits galvanic corrosion for bolts but also for threaded fasteners.

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