



TEST REPORT

Established 1948

140 Standard Street • El Segundo, California 90245.3832 • voice 310.322.4993 • fax 310.322.6681

MAXON TECHNOLOGIES
5500 Rosecrans Avenue
Hawthorne, CA 90250

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CUST P.O. 0000690
SAMPLE NO. 48303
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SAMPLE: 3-4x4 STEEL PANELS

TABER ABRASION TEST PER ASTM D4060-14

PRECLEAN: None - test as received
CONDITION: At least 24 hours at 23±2°C and 50±5% relative humidity
TESTING: 1000 cycles with CS-10 wheels and 1000 gram load
EVALUATION: Weight loss

<u>PANEL</u>	<u>RESULT (WEAR INDEX)</u>
1	0.04 mg/1000 cycles
A	0.05 mg/1000 cycles
X	0.03 mg/1000 cycles

The resistance of materials and structures to abrasion can be measured by a variety of test methods. These often use a specified abrasive or other controlled means of abrasion. An internationally recognized standard test is the ASTM D-4060 abrasion resistance test. The standard calls for three distinct criteria: abrasion wheels, a weight, and a cycle amount. The abrasion wheels will range in coarseness from non-resilient wheels to harsh abrasion wheels. This is combined with a set weight applied onto the coating and the coating is rotated for a chosen amount of cycles. Coatings industry standard protocol states a CS-17 wheel, 1000g load, and 1000 cycles.

Product	Competitor A	Competitor B	Competitor C	Competitor D	H ₂ Poxy A
Wheel	CS-17	CS-17	CS-17	CS-17	CS-17
Weight applied	1000 g	1000 g	1000 g	1000 g	1000 g
Cycles	1000	500	1000	1000	1000
Weight lost	36 mg	28 mg	33.9 mg	22mg - 28 mg	3 mg

The results above reflect that while some manufacturers may try to advertise great abrasion resistance by using a more resilient wheel, lighter weight, less cycles, or a combination of the three, H₂Poxy displays incredible abrasion resistance under an industry standard protocol. Independent Lab Testing shows that H₂Poxy A has a weight loss of only 3 milligrams; much less than every competitor in the test while being a 100% solids product that is fast drying and hydrophobic.