

Abrasion is defined as the process of scuffing, scratching, wearing down, or rubbing away. It is an everyday occurrence when dealing with garage floor coatings. Fortunately, there are standardized tests available to compare products when determining which is superior. This is known as 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 have different types of coarseness ranging from non-resilient wheels to harsh abrasion wheels. This is combined with a set weight applied onto the coating and the coating is allowed to rotate for a certain amount of cycles. For the coatings industry, the standard protocol states a CS-17 wheel, 1000 gram (1kg) load, and 1000 cycles.

<b>Product</b>	VBP 5350 CRU	Competitor A	Competitor B	Competitor C	Competitor D
<b>Wheel</b>	CS-17	CS-17	CS-17	CS-17	CS-17
<b>Weight applied</b>	1000 g	1000 g	Unknown	1000 g	Unknown
<b>Cycles</b>	1000	1000	1000	1000	1000
<b>Weight lost</b>	2 mg	42.7 mg	19 mg	25 mg	20mg - 30 mg

Above is a comparison of 2k Chemical Resistant Urethane Coatings with similar solids rates to our 5350 CRU. It is important to look closely at the results and claims of abrasion resistance testing as some companies may try to advertise great abrasion resistance by using a more resilient wheel, lighter weight, less cycles, or a combination of the three. As you can see, Competitor B and Competitor D both failed to list the weight used for testing. This could be due to the fact that they used a lighter weight during the test process in an attempt to make the overall abrasion resistance look more appealing. Versatile Building Products has an average weight loss of only 2 milligrams of material lost; that is a magnitude of 10 to 21 times more abrasion resistant than the listed competitors. This truly shows that Versatile Building Products' 5350 Chemical Resistant Urethane coating is the superior choice for a top coat if someone is looking for something that can hold up to everyday use and abuse.