

ABSTRACT**Device for Testing Durability of Painted Surfaces by Accelerating
Wear Thereof and Method Used Therefor**

A device of testing the durability of a surface under accelerated conditions is disclosed. The device provides for testing the surface, such as paint markings from a paint, under simulated environmental conditions which are akin to those experienced by the paint markings applied on the working substrates, such as road surfaces. The device includes one or more wear wheels which roll preferably in a circular motion over a test pattern of the paint markings applied over a test substrate which is similar to a working substrate, such as a road surface. The wear wheel rolls under pressure through a desired number of rotations over the test pattern of paint markings. The pressure is adjusted to simulate the pressure exerted on the actual traffic paint markings on the road surfaces by vehicles driving thereon.

The path of the rolling wear wheels allows the user to simultaneously compare the durability of several experimental paints by exposing each paint marking from the various experimental paints to the same speed and pressure that results in the same degree of wear.

The path of the rolling wear wheels allows the user to simultaneously expose paint markings from several experimental paints to the same degree of wear under the same speed and pressure.

This Sheet Has Been Replaced

