



July 12, 2021

OBJECTIVE

To perform Taber Shear/Scratch testing for durability and adhesion on samples coated with MicroGuard1 3500 (MG1-3500) HVAC Coating.

PRODUCTS TESTED

4" x 4" ceramic tiles coated with Adsil's MicroGuard 1, MG1-3500 HVAC Coating, were tested in Adsil's internal lab.

TEST PROCEDURE

Using the TABER™ Shear / Scratch tester, durability and adhesion of coatings can be rated. This is determined by recording when the tool breaks through the junction of the topcoat and the undercoat. Tests are conducted on the specimen surface, with weight settings advanced at 10 gram intervals, to determine which weight setting produces scratching. A 10x Measuring Magnifier is used to visually determine the lowest 10 gram interval that did not show signs of breakthrough.

TEST RESULTS

Taber Scratch Testing is a very good method for determining overall coating durability and is particularly well suited for measuring the durability of coatings. As demonstrated, MG1-3500 exhibits superior resistance to abrasive exposure and adhesion which denotes durability.

MG1-3500 Results - 80 grams