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DURABILITY

NIC Industries Quality Control Group

NIC Industries – Quality Control Group

Lab Report: Wet Abrasion and Contact Angle Analysis

Date: May 2025

Prepared For: Cerakote

Project Title: Wet Abrasion and Contact Angle Evaluation – Professional Ceramic Coating

1. Materials and Methods

1.1 Test Standards

- **Wet Abrasion Testing: Modified ASTM D2486 (Test Method A), using conditions per ASTM D3924.**
- **Contact Angle Measurement: ASTM D5946 – Standard Test Method for Water Contact Angle on Corona-Treated Polymer Films.**

1.2 Equipment

- **Wet Abrasion Scrub Tester: BGD 526**
 - **Contact Angle Goniometer: Ossila L2004A**
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2. Test Procedure

Panel Preparation

- **Panels were coated per NIC specifications and labeled for tracking (Pro 1–3).**
- **Cerakote Professional Ceramic Paint: Applied using a crosshatch method with 50% overlap, allowed to bead for 2 minutes, then removed via a two-towel method. Panels were cured at 70°F for 24 hours.**

Contact Angle Measurements

- Measurements were taken midway through the panel before and after abrasion.

Wet Abrasion Process

- Panels were scrubbed for 50 back-and-forth rotations using soap and DI water by the BGD procedure.
- Panels were rinsed and nitrogen-dried before final measurements.

3.0 Cerakote Professional Ceramic Paint – Contact Angle Results

Panel	Pre-Wash (°)	Post-Wash (°)
Pro 1	103.93	103.56
Pro 2	106.72	99.55
Pro 3	104.66	104.55
Average	105.10	102.55
