



## All Weather Insulated Panels

**Subject:** TCA’s adhesion test on All Weather Insulated panels coated with Cool Wall system; Textured Primer and Classic Smooth Primer top coated with Supercote.

**Test Method:** Coil coated 5”X10” steel panel was provided by All Weather Insulated Panels. These panels were coated with 2 different primers then top coated with supercote.

1. Cool Wall Textured Primer at coverage of 50 sqft/gallon
2. Classic Smooth Primer at coverage of 100 sqft/gallon
3. Supercote at coverage of 200 sqft/gallon with Textured Primer at coverage of 50 sqft/gallon
4. Supercote at coverage of 200 sqft/gallon with Classic Smooth Primer at coverage of 100 sqft/gallon

A cure of 1 week at room temperature was maintained before adhesion test, ASTM D3359 (Measuring Adhesion by Tape Test) Method B (Cross-Cut Tape Test). This Method B requires scribing eleven parallel lines into the paint film, 2 mm apart, using a sharp razor blade. An identical number of lines are then scribed perpendicular to the first set of lines, resulting in a lattice pattern. Permacel 99 adhesive tape is firmly rubbed onto the cross-cut area and the tape then removed briskly. The extent of paint flaking, if any, is then determined and rated according to a scale provided in the ASTM method. The ratings range from 5B (no flaking), to 0B (flaking in excess of 65% of the cross-cut area) was used. The scale used for the rating is included in the test results.

**Test Results:** Following are the results, organized by paint system.

|   | Coverage                                  | DC131W-151<br>Imperial White |
|---|---|------------------------------|
| <b>Textured Primer</b>                          | <b>50 sqft/gal</b>                        | <b>5B</b>                    |
| <b>Classic Smooth Primer</b>                    | <b>100 sqft/gal</b>                       | <b>5B</b>                    |
| <b>Supercote with<br/>Textured Primer</b>       | <b>200 sqft/gal with<br/>50 sqft/gal</b>  | <b>5B</b>                    |
| <b>Supercote with<br/>Classic Smooth Primer</b> | <b>200 sqft/gal with<br/>100 sqft/gal</b> | <b>5B</b>                    |

## Scale table

|           |  |
|-----------|--|
| <b>5B</b> | <b>The edge of the cuts are completely smooth; none of the squares of the lattice is detached</b>  |
| <b>4B</b> | <b>Small flakes of the coatings are detached at intersections, less than 5% of the area is affected.</b>   |
| <b>3B</b> | <b>Small flakes of the coatings are detached along edges and at intersections of cuts. The area affected is 5 to 15% of the lattice.</b>               |
| <b>2B</b> | <b>The coating has flaked along the edges and on parts of the squares. The area affected is 15 to 35% of the lattice.</b>                              |
| <b>1B</b> | <b>The coating has flaked along the edges of cuts in large ribbons and whole squares have detached. The area affected is 35 to 65% of the lattice.</b> |
| <b>0B</b> | <b>Flaking and detachment worse than Grade 1.</b>  |

**Conclusion:** Over all, Cool Wall coatings system is well adhere to the DC131W-151 Imperial White Panel.

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