

texturepanels.com.au

▶ Adhesion (Room Temperature)

—TEST NO. TP05 —

I. Scope

This test procedure evaluates the adhesion of the paint/polymer system to the substrate used for the Texture Plus® system.

II. Materials and Equipment

- **a.** Cutting tool, (Gardner PA 2000 or equal) with six teeth and 2.0mm blade.
- **b.** Texture Plus® production coated parts with barrier coat and top coat.
- **c.** Scotch cellophane tape # 600 1" wide.
- **d.** Kleenex or equal.
- e. Rubber eraser on the end of a pencil.

III. Procedure

- **a.** Age finished parts for 1 week at room temperature (77 degrees F)
- **b.** Make two cuts with cutting tool at right angles to each other, approximately 1.5 inches long on
- each test part to be evaluated. The second cut should be made on top of the first cut forming 25
- small squares. When cutting, cut through the film to the substrate in one steady motion.
- **c.** Brush the test area lightly with a Kleenex to remove any detached pieces or ribbons of coating.
- **d.** Press the center of about 3 inch long tape over the cross hatched area at about 45 degree angle.
- **e.** Rub the tape with the pencil eraser to make sure the tape to painted film has total contact.
- **f.** Within one minute, remove the tape with a rapid pull (not jerked) back upon itself as close to a 180 degree angle as possible.
- **g.** Visually inspect the test specimen without magnification and compare results to the adhesion guide, see Figure 1.



texturepanels.com.au

Adhesion (Room Temperature)

TEST NO. TP05—
(Continued...)

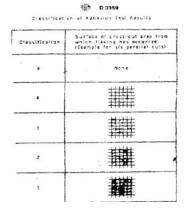


Figure 1 Classification of Adhesion Test Results

- 5. The edges of the cuts are completely smooth: none of the squares of the lattice is detached.
- 4. Small flakes of the coating are detached at intersections: Less the 5% of the area is affected.
- 3. Small flakes of the coating are detached along the edges and at intersections of cuts. The area affected is 5 to 15% of the lattice.
- 2. The coating has flaked along the edges and on parts of the squares.

The area affected is 15 to 35% of the lattice.

1 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.

0 Flaking and detachment are worse than Grade 1.

IV. Report

- **a.** Report the rating that best matches the adhesion guide.
- **b.** A rating of 3 or better is acceptable. Inter-coat adhesion loss or adhesion to substrate loss of 2 or worse is cause for rejection.
- **c.** Compare test results to Texture Panels standard parts.

V. Results

a. The parts tested received a Grade 5. The edges of the cuts are completely smooth; none of the squares of the lattice is detached.