Freeze-Thaw
Test No. TP01

I. Scope

This test procedure is used to determine the resistance of the paint/polymer system used for the TextureFoam system against cold checking.

II. Materials and Equipment

a. A combination humidity cabinet, convection oven and cold box or individual components capable of maintaining the following:

Humidity: 100% at 100 degrees F +/- 3.
Oven: 155 degrees F +/- 5.
Cold Box: 20 degrees F +/-4.

b. TextureFoam production coated parts with barri er coat and top coat.

III. Procedure

a. Age finished parts for 1 week at room temperature (77 degrees F)

b. Place parts in a rack to allow air circulation between parts at the following cycles in individual test cabinets or a combination testing apparatus:

Humidity	16 hours
Cold Box	4 hours
Convection Oven	4 hours
Room Temperature	2 hours
Convection Oven	2 hours

c. Each 24 hours of exposure equals one cycle.

d. Examine the parts after each cycle for paint/polymer checking or cracking. Failure usually occurs as a series of irregular lines or fractures.

IV. Report

a. Report and record the condition of each test specimen following each cycle.

b. More than two checks or cracks of more than 1-2 inches constitute a failure.

c. A paint that passes 3 cycles is acceptable.

d. Compare the test results against TextureFoam standard part.

V. Results

a. The parts tested passed. There were no checks or cracks in the TextureFoam samples tested.