

CALCOAST ANALYTICAL

Materials Chemistry

Certified by

City of Los Angeles, Dept. of Building & Safety

September 5, 2006

Re: LABORATORY TESTING

1. SAMPLES:

Sixty one red brick veneer samples coated with an anti-graffiti coating.
Sixty one plywood samples coated with an anti-graffiti coating
Sixty six steel panels coated with an anti-graffiti coating

2. TESTING PERFORMED:

- A. Cleanability per ASTM D6578 "Standard Practice for Determination of Graffiti Resistance"
- B. Re-cleanability per ASTM D6578
- C. Chemical Resistance: Five minutes and one hour exposures to the cleaning agents listed in the ASTM D6578 standard.

3. RESULTS:

A. Cleanability

MARKING MATERIAL	REPELLENT	WOOD	METAL	BRICK
Blue Permanent Marker	Yes	Level 1	Level 1	Level 1
Red Spray Paint	No	Level 2	Level 2	Level 2
Blue Wax Crayon	No	Level 1	Level 1	Level 1
Black Water Based Ink Marker	Yes	Level 1	Level 1	Level 1

Cleanability levels are defined as follows:

Level 1: Graffiti completely removed with dry cotton cloth

Level 2: Graffiti completely removed with 1% detergent solution

Level 3: Graffiti completely removed with citrus-based cleaner

Level 4: Graffiti completely removed with isopropanol

Level 5: Graffiti completely removed with methyl ethyl ketone


Not Cleanable: Graffiti still remains

B. Re-cleanability:

MARKING MATERIAL	WOOD	METAL	BRICK
Blue Permanent Marker	Level 1, 3 cycles	Level 1, 3 cycles	Level 1, 3 cycles
Red Spray Paint	Level 2, 3 cycles	Level 2, 3 cycles	Level 2, 3 cycles
Blue Wax Crayon	Level 1, 5+ cycles	Level 1, 5+ cycles	Level 1, 5+ cycles
Black Water Based Ink Marker	Level 1, 5+ cycles	Level 1, 5+ cycles	Level 1, 5+ cycles

C. Chemical Resistance:

EXPOSURE	WOOD	METAL	BRICK
5 minutes 1% Detergent solution	No Change Pass	No Change Pass	No Change Pass
1 hour 1% Detergent Solution	No Change Pass	No Change Pass	No Change Pass
5 minutes Citrus-based Cleaner	No Change Pass	No Change Pass	No Change Pass
1 hour Citrus-based Cleaner	No Change Pass	No Change Pass	No Change Pass
5 minutes Isopropyl Alcohol	No Change Pass	No Change Pass	No Change Pass
1 hour Isopropyl Alcohol	No Change Pass	No Change Pass	No Change Pass
5 minutes Methyl Ethyl Ketone	No Change Pass	No Change Pass	No Change Pass
1 hour Methyl Ethyl Ketone	No Change Pass	No Change Pass	No Change Pass


 Fintan Shanley
 Coatings Chemist

FS: qh (2)