

Test Report



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CLIENT: LG Hausys American, Inc.
310 LG Drive
Adairsville, GA 30103

Attn: Christopher Kim

Test Report No: TJ0941-R1	Date: January 3, 2013
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SAMPLE ID: Fourteen (14) 12" x 12 tiles identified as: Arctic White, LG Hausys

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: The samples were received in good condition at QAI on November 8, 2012.

TESTING PERIOD: November 12 – January 3, 2013

AUTHORIZATION: Signed QAI Proposal No.: FB110112-1 Rev. 1 by Chul Jung of LG Hausys American, Inc., dated November 5, 2012

TEST PROCEDURE: CSA B45.5/IAPMO ANSI Z124.11, *Plastic Plumbing Fixtures (Stain Resistance) and Client Protocol on assorted chemicals and stains.*

TEST RESULTS: Detailed test results are presented in the subsequent pages of this report.

Prepared By

**Signed for and on behalf of
QAI Laboratories, Inc.**

Linda Lewis
Materials Testing Technician

Randall P. Baker, PE
Plumbing and Materials Manager

**ANSI Z124.11 (All ratings below are described in Section 5.11.2)****5.11 Stain Resistance:****Pass**

Reagent	Exposure Time	Covered Specimen Rating	Uncovered Specimen Rating
Black Crayon	16 hrs.	1	1
Black Liquid Shoe Polish	16 hrs.	1	1
Blue Washable Ink	16 hrs.	1	1
Lipstick	16 hrs.	1	1
Hair Dye	16 hrs.	1	1
Iodine, 1%	16 hrs.	1	1
Gentian Violet Solution	16 hrs.	1	1
Beet Juice	16 hrs.	1	1
Grape Juice	16 hrs.	1	1
Wet Tea Bag	16 hrs.	1	1
Total Each Section		10	10
Total Stain Resistance Rating (64 max.):		20	

Client Requested Reagents**Pass**

	Reagent	Exposure Time	Covered Specimen Rating	Uncovered Specimen Rating
1	Acridine Orange	16 hrs.	2	1
2	AG Eosine Blue	16 hrs.	3	2
3	Amyl Acetate	16 hrs.	3	3
4	Amyl Alcohol	16 hrs.	3	2
5	Aromatic Ammonia	16 hrs.	1	1
6	B-4 Conditioner	16 hrs.	1	1
7	Benzalkonium Chloride	16 hrs.	1	1
8	Benzene	16 hrs.	1	1
9	"Benco Dental" Bite Registration, Accelerator and Base	16 hrs.	1	1
10	Butyl Alcohol	16 hrs.	2	2
11	Calcium Thiocyanate	16 hrs.	1	1
12	Carbon Disulphide	16 hrs.	1	2
13	Carbon Tetrachloride	16 hrs.	2	1
14	Caulk IRM (with or w/o ZnO)	16 hrs.	3	3
15	"Chloraseptic" (Phenol 1.5%)	16 hrs.	1	1
16	Crystal Violet	16 hrs.	2	2
17	Cupra Ammonia	16 hrs.	3	3
18	Debacterol	16 hrs.	1	1

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	Reagent	Exposure Time	Covered Specimen Rating	Uncovered Specimen Rating
19	Dimethyl Formamide	16 hrs.	1	1
20	Dimethylene Blue	16 hrs	2	1
21	"Dry Bond" Dental Adhesive	16 hrs.	1	1
22	Eosin Y	16 hrs.	3	3
23	"Cavitec" Equalizing Accelerator & Base	16 hrs.	3	3
24	Ethyl Acetate	16 hrs.	3	3
25	Ethyl Ether	16 hrs.	1	1
26	Eucalyptol	16 hrs.	1	1
27	"Eugenol" (with or w/o ZnO)	16 hrs.	1	1
28	Ferric Chloride	16 hrs.	1	1
29	"Fisher" Formaldehyde	16 hrs.	1	1
30	Food Colouring	16 hrs.	1	1
31	Formaldehyde	16 hrs.	1	1
***	Household Soaps		See Below	See Below
32	Dawn Dish Soap	16 hrs.	1	1
33	Arm & Hammer Laundry Soap	16 hrs.	1	1
34	Introfiant Arterial	16 hrs.	1	1
35	Kelviscera Cavity Fluid	16 hrs.	1	1
36	Kerosene	16 hrs.	1	1
37	Lemon Juice	16 hrs.	1	1
38	"Limelite" Intermediary Varnish	16 hrs	1	1
39	Liquid shoe polish, Brown	16 hrs.	1	1
40	"Lysol" Brand Cleaner	16 hrs.	1	1
41	Methyl Ethyl Ketone	16 hrs.	3	2
42	Methyl Orange	16 hrs.	3	3
43	Methyl Red (1%)	16 hrs.	1	2
44	Mineral Oil	16 hrs.	1	1
45	Monsele's Solution	16 hrs.	1	1
46	Nail Polish	16 hrs.	1	1
47	n-Hexane	16 hrs.	2	1
48	Permaglo Arterial Fluid	16 hrs.	1	1
49	Permaflow Preinjection Fluid	16 hrs.	1	1



	Reagent	Exposure Time	Covered Specimen Rating	Uncovered Specimen Rating
50	Peroxide	16 hrs.	1	1
51	Phenolphthalein (1%)	16 hrs.	1	3
52	Phosphorus Pentoxide	16 hrs.	3	1
53	Potassium Permanganate (2%)	16 hrs.	3	3
54	Procaine	16 hrs.	1	3
55	Restorative Anti-Dehydration	16 hrs.	1	1
56	Rhodamine WT Powder	16 hrs.	3	3
57	Saffron	16 hrs.	1	1
58	Silica Dental Cement (liquid) "Calbra"	16 hrs.	2	2
59	Silver Nitrate (10%)	16 hrs.	3	1
60	Sodium Bisulphate	16 hrs.	1	3
61	Sodium Hydroxide Flake	16 hrs.	3	1
62	Sodium Hypochlorite (5%)	16 hrs.	1	1
63	Sodium Sulphate	16 hrs.	1	1
64	Solitine Solvent	16 hrs.	1	1
65	Soy Sauce	16 hrs.	1	1
66	Sugar (sucrose)	16 hrs.	1	1
67	Tannic Acid	16 hrs.	1	1
68	Tetrahydrofuran	16 hrs.	3	1
69	"Thymol" in Alcohol	16 hrs.	1	3
70	Tincture of Iodine	16 hrs.	1	1
71	Tomato Sauce	16 hrs.	1	1
72	Trichloroethane	16 hrs.	1	1
73	Trypan Blue	16 hrs.	3	3
74	Uric Acid	16 hrs.	1	1
75	Wright's Stain	16 hrs.	3	1
76	Zinc Chloride	16 hrs.	1	1
77	Zinc Oxide (paste, ointment)	16 hrs.	1	1

END OF REPORT

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