

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2014
 DateRun: 08/26/2014
 Experimenters: Jason Marshall
 ClientType: Adhesive Manufacturer
 ProjectNumber: Project #1
 Substrates: Marble
 PartType: Part
 Contaminants: Calcium/lime
 Cleaning Methods: Immersion/Soak
 Analytical Methods: Gravimetric, Visual

Purpose: To evaluate supplied product on the effects on marble substrate through overnight immersion.

Experimental Procedure: Several marble chips of similar size and shape were weighed to determine the baseline weight of each piece. The selected chips were then immersed in the supplied product at the recommended strength and allowed to sit overnight. After soaking at room temperature for 15 minutes, the marble chips were removed from the products and rinsed in a tap water spray at 120 F for 3 minutes to remove loose material from the chips. Then the chips were dried for 24 hours at room temperature. After the cooling period, final weights were recorded to determine weight loss, if any. If there was no noticeable change during this timeframe, the test was rerun with full strength cleaners and allowed to run for 24 hours. Observations were made and photographs were taken after the initial immersion of the chips into solutions (5 minutes), at 60 minutes and then following the overnight immersion. The % loss and the rate of loss was then calculated.

Cleaner	Initial	Final	% Loss	Sitting Period (min)	Rate of Loss (g/min)
J-Hydro 8.33%	17.4451	17.4439	0.00688	15	8.00E-05
CSB 10 xFF 10%	18.2562	18.2562	0.0000	15	0
PC-115	16.9933	16.4930	2.9441	15	3.34E-02
J-Hydro - Full	4.0363	3.8069	5.6834	1440	1.59E-04
CSB 10 xFF - Full	3.2076	3.2052	0.0748	1440	1.67E-06

Summary:

Substrates:		Marble				
Contaminants:		Calcium/lime				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
MassCor	JTech All Clean Bathroom	8.3	0.01	<input type="checkbox"/>	Minimal weight loss	
Next-Gen Supply Group	PC 115 Mild Acid Disinfectant Restroom & Shower Cleaner	100	2.94	<input checked="" type="checkbox"/>	weight loss	
MassCor	JTech All Clean Bathroom	100	5.68	<input checked="" type="checkbox"/>	weight loss	

Conclusion: The diluted concentrations of J-Hydro and CSB led to minimal changes in the weight of the marble blocks. Upon application at full strength for a 24 hour period, the J-Hydro dissolved almost 6% of the marble block; while CSB did not dissolve more than 0.1%. J-Hydro worked more effectively than CSB but not as effective as PC-115.