

## **Technical Data Sheet EN 438 Stain Test Results**

## **Chemical Resistant SPC by Durcon**

		Rating	Rating
	Chemical	(immediately after remove)	(24 hours after remove)
		With / Without covering	With / Without covering
Acid			
	Acetic Acid 99%	5/5	5/5
	Formic acid 85%	5/5	5/5
	Hydrochloric acid 37%	4/4	5/5
	Nitric acid 65%	2/3	2/3
	Phosphoric acid 85%	4/4	5/5
	Sulfuric acid 96%	5/5	5/5
Alkalis			
	Ammonia 28%	5/5	5/5
	Sodium hydroxide 10%	5/5	5/5
	Caustic soda 20%	5/5	5/5
	Caustic soda 40%	5/5	5/5
	Potassium hydroxide 25%	4/5	5/5
Salts	<u> </u>		
	Iron (III) chloride 10%	5/5	5/5
	Potassium permanganate 10%	2/2	2/3
	Silver nitrate 1%	5/5	5/5
	Sodium chloride 1 0%	5/5	5/5
	Sodium hypochlorite 13%	4/4	5/5
Halogens	, ·		
	lodine solution (0.1 N) 100%	2/3	3/4
Organic cl			
	Dimethylformamide > 99%	5/5	5/5
	Benzine	5/5	5/5
	Hydrogen peroxide 3%	4/5	5/5
Solvent			
	Acetone > 99.5%	5/5	5/5
	Ethyl alcohol 96%	5/5	5/5
	Methyl alcohol min. 99.8%	5/5	5/5
	Methyl chloride 99.8% min	5/5	5/5
	Tetrahydrofuran ≥ 99%	5/5	5/5
	Toluene ≥ 99.5%	5/5	5/5
	Ethyl acetate ≥ 99.5%	5/5	5/5
Biological			
. 9	Congo red 1%	5/5	5/5
	1% malachite green oxalate	5/5	5/5
	Methylene blue 1%	4/4	4/4

## Testing of resistance to staining:

Independent testing performed by EPH - April 2011

Test standard..... EN 438-2 State of test specimens..... As delivered

Number of specimens...... 1 sample for each type of covered medium Conditioning of specimens...... 16 hours in test atmosphere (23 °C / 50% RH) Contact surface...... Decorative sheet surface

Contact period......24 hours in each case

Test temperature......23 °C

Test Substances...... Chemicals listed in table above

The test chemicals (approx.. 1 ml each) were applied to the sample surface with each enclosed in a sealing bead, and let to affect the surfaces. After application, the areas with the test chemicals were covered by a glass plate.

After a time of exposure of about ten hours the test areas were checked visually and new test substances were applied. After 24 hours, the residues of the substances were removed and the panel surfaces were cleaned without scrubbing. Afterwards, the surfaces were assessed according the rating following rating scale:

Rating 5: No visible change.

Rating 4: Slight change of gloss and / or colour, only visible at certain viewing angles.

Rating 3: Moderate change of gloss and / or colour.

Rating 2: Marked change of gloss and / or colour.

Rating 1: Surface distortion and / or blistering.