

Resistance to Staining and Reagents - Linoleum

- 0:** No Stain
1: Slight
2: Moderate
3: Severe
Bl: Bleaching
D: Dulling
S: Softening
R: Reagent left a residue

	LINOLEUM	
	With NATURCote™	Without NATURCote™
Organic Solvents		
Acetone	0	0, D
Chloroform	0	0, D
Ethyl Acetate	0	0, D
Ethyl (Denatured) Alcohol	0	0, D
Ethyl Ether	0	0, D
Ethylene Glycol (Antifreeze)	0	0
Formaldehyde - 10%	0	0
Gasoline	0	1
Isopropyl Alcohol	0	0, D
Kerosene	0	0
Methylene Chloride	0	0, D
Methyl ethyl ketone (M.E.K.)	0, D	0, D
Mineral Spirits	0	0
Perchloroethylene	0	0
Toluene	0	1
Trichloroethylene	0	1
Turpentine	0	1
Xylene	0	1
Alkali (Bases)		
Ammonium Hydroxide - 30%	0	1
Potassium Hydroxide - 15%	0, D	3
Sodium Hydroxide - 50%	0, D	1
Acids		
Acetic Acid - 28%	0	0
Acetic Acid - Glacial	0	0, D
Hydrochloric - 38%	0	0, D
Lactic Acid - 10%	0	0, D
Nitric Acid - 15%	0	2
Phosphoric Acid - 85%	0	1
Sulfuric Acid - 40%	0	1
Sulfuric Acid - 10%	0	0
Salt Solutions		
Calcium Chloride - Sat'd	0	0
Copper Sulfate - 10%	0	0
Ferric Chloride - 10%	0	1
Silver Nitrate - 1%	0	1
Medical Stains & Reagents		
Aniline Blue - 2.5%	0	0
Auramine Rhodamine	2	2
Basic Fuchsin	3	3
Betadine® Skin Cleanser	1	0
Betadine Solution - 10%	1	0
Bromocresol Green	2	2
Carbol Fuchsin	1	1
Eosin - 1%	2	2
Gentian Violet - 2%	3	2
Glutaraldehyde	0	0
Iodine Tincture	3	3
Iodine Gram Stain	3	3
Iodoform - 1%	0	0
Lugol's Solution	3	3
Merthiolate Tincture	2	3
Methylene Blue	2	2
Picric Acid - 1%	3	3
Potassium Permanganate - 0.5%	3	2
Tincture of Benzoin	3, R	3, R
Urea Solution	0	0
Wright's Blood Stain	3	3
Embalming Chemicals		
Pretresol - Pre-injection	0	0
Kelcavex - Cavity	0	0
Kelspecial® - Arterial	0	0
Presinol - Arterial	0	0
Disinfectants and Cleaners		
Clorox®	0	1, Bl
Comet® Bathroom Cleaner	0	0
Hydrogen Peroxide	0	0
Lysol® Liquid Disinfectant	0	0
Food Service		
Catsup	0	0
Coffee - Hot Black	0	0
Cola Drink	0	0
French Dressing	0	0
Mustard	2	1
Red Food Color	2	1
Red Wine	0	0
Soy Sauce	0	0
Spaghetti Sauce	0	0
Tea - Hot Black	0	0
Tomato Paste	0	0
Office		
Ball Pen Ink	3	3
Carbon Paper Smudge	1	0
Fountain Pen Ink	0	0, D
Lead Pencil	1	0
Permanent Black Marker	3	3
Photo Copy Toner (Powder)	0	0
Red Crayon	2	2
Red Tempura Paint	0	0, D
Oils		
Beef Tallow - Hot	0	0
Canola Oil	0	0
Cottonseed Oil	0	0
Brake Fluid	0	0, D
Dextron Transmission Fluid	0	0
Mineral Oil	0	0
Olive Oil	0	0
SAE #10 Oil	0	0
30 wt. Non-Detergent Oil	0	0
Used Motor Oil	0	0
Miscellaneous		
Asphalt Driveway Sealer	3, R	3, R
Blue Chalk	0	0
Black Rit Dye	3	3
Eye Shadow	0	0, D
Hair Color	3	3
Lipstick	0	2
Perfume	0	1
Red Candle Wax	2, R	3, R
Red Nail Polish	3, R	3, R
Shoe Polish - Liquid Brown	0	0
Shoe Polish - Paste Brown	2, R	3, R

Samples were tested as manufactured (no additional surface treatments). All samples were exposed to reagents for four hours (uncovered), then cleaned with a neutral commercial cleaner and cotton cloth. A key for interpreting results is found above. It is important to note that in some cases residual stain, residues and surface dulling may be further reduced or eliminated with different or more aggressive cleaning procedures and/or cleaning agents than the common method used for this multi-product comparison. For further details on appropriate cleaning methods and care for specific products, please consult the care and maintenance guidelines for the specific product at armstrong.com/flooring.

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