

## Resistance to Staining Reagents – TimberTones®

We extensively test all our products to determine how our different flooring products will perform in use — and how the flooring will react to staining reagents. Owners and specifiers know the types of substances that may potentially stain surfaces in their building. This chart is designed to provide owners and specifiers with accurate information about a wide variety of cleaners, disinfectants, foods, beverages, oils, organic solvents, and other substances that may be found in buildings and affect the performance of the floor.

Organic Solvents	Test Result
Acetone – High Solvency	0
Chloroform	0
Ethyl Acetate	0
Ethyl (Denatured) Alcohol – 90%	0
Ethyl Ether	0
Ethylene Glycol (Antifreeze)	0
Formaldehyde - 10%	0
Gasoline	0
Isopropyl Alcohol – 70%	0
Kerosene	0
Methyl Ethyl Ketone (M.E.K.)	0
Mineral Spirits (white spirits)	0
Toluene	0
Trichloroethylene TCE)	0
Turpentine	0
Xylene	0

Alkali (Bases)	Test Result
Ammonium Hydroxide - 30%	0
Potassium Hydroxide - 15%	0
Sodium Hydroxide - 50%	0

Acids	Test Result
Acetic Acid - 28%	0
Acetic Acid - Glacial	0
Hydrochloric - 38%	0
Lactic Acid	0
Nitric Acid - 10%	0
Sulfuric Acid - 40%	0
Sulfuric Acid - 10%	0

Salt Solutions	Test Results
Calcium Chloride – Saturated	0
Copper Sulfate - 10%	0
Ferric Chloride - 10%	0
Silver Nitrate - 1%	0

Medical Stains & Reagents	Test Results
Aniline Blue - 2.5%	0
Auramine Rhodamine	0
Basic Fuchsin	0
Betadine® Skin Cleanser	0
Betadine® Solution - 10%	0
Bromocresol Green	0
Carbol Fuchsin	3
Eosin - 1%	2
Gentian Violet	0
Glutaraldehyde	0
Iodine Tincture	2
Iodine Gram Stain	0
Iodoform - 1%	0
Lugol's Solution	0
Merthiolate Tincture	0
Methylene Blue	0
Picric Acid - 1%	0
Potassium Permanganate - 0.5%	3
Tincture of Benzoin	0
Urea Solution	0
Wright's Blood Stain	0

Disinfectants & Cleaners	Test Results
Bleach - 5.25%	0
Comet Bathroom Cleaner	0
Hydrogen Peroxide	0
Lysol® Liquid Disinfectant	0

<b>Food Service</b>	<b>Test Results</b>
Coffee - Hot Black	0
Cola Soda	0
French Dressing	0
Ketchup	0
Red Food Color	0
Red Wine	0
Soy Sauce	0
Spaghetti Sauce	0
Tea - Hot Black	0
Tomato Paste	0
Yellow Mustard	0

<b>Office</b>	<b>Test Results</b>
Ball Pen Ink	0
Carbon Paper Smudge	0
Fountain Pen Ink	0
Lead Pencil	0
Permanent Marker	0
Red Crayon	0
Red Tempura Paint	0

<b>Oils</b>	<b>Test Results</b>
Beef Tallow - Hot	0
Canola Oil	0
Cottonseed Oil	0
Brake Fluid	0
Transmission Oil	0
Mineral Oil (medicinal grade)	0
Olive Oil	0
SAE #10 Oil	0
30 wt. Non-Detergent Oil	0
Used Motor Oil	0

Miscellaneous	Test Results
Asphalt Driveway Sealer	0
Blue Chalk	0
Black Rit® Dye	0
Eye Shadow	0
Hair Dye	0
Red Lipstick	0
Perfume	0
Red Candle Wax - Melted	0
Red Nail Polish	0
Shoe Polish - Liquid Brown	0
Shoe Polish - Paste Brown	0

Samples were tested as manufactured (no additional surface treatments). All samples were exposed to reagents for 24 hours (uncovered), then cleaned with a neutral commercial cleaner and cotton cloth.

A key for interpreting results is found below. 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 other than the common method used for this multi-product comparison.

0 = No Stain	BI = Dulling
1 = Slight Change	D = Gloss Up
2 = Moderate Change	G = Softening
3 = Severe Change	S = Reagent Left Residue

For further details on appropriate cleaning methods and care for specific products, please consult the care and maintenance guidelines for the specific product at [ArmstrongFlooring.com](http://ArmstrongFlooring.com) or contact Armstrong Flooring at 1-866-243-2726.

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