

Resistance to Staining Reagents

LVT
Instinct™ | Connectivity™

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 solvent, and other substances that may be found in buildings and affect the performance of the floor.

Acids	Result
Acetic Acid - 5% *	0
Acetic Acid – 28%	0
Acetone – High solvency	0
Hydrochloric Acid - 5% *	0
Sulfuric Acid – 5% *	0
Sulfuric Acid - 10%	0

Alkali (Bases)	Result
Sodium Hydroxide - 10%	0

Disinfectants & Cleaners	Result
Ammonia – 5% *	0
Bleach – 5.25% *	0
Bleach – 10%	0
Germicide - A456 II	0
Lime A Way	0
Phenol – 5% *	0
Phenolic 5%	1
QC 31 Neutral Cleaner	0
QC 52 Glass Cleaner	0
QC 53 General Purpose Cleaner	0
Sodium Hydroxide - 5% *	0
Stainless Steel Polish - Ecoshine	0

Food Service	Result
Kool Aid – Red	0
Mustard – Yellow	0
Soda – Cherry	0
Wine – Red	0

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Medical Stains	Result
Aniline Blue	0
Betadine solution – 10%	0
Blood	0
Iodine Gram Stain	0
Iodine Tincture	0
Methylene Blue	0
Mineral Oil (Medicinal Grade)	0
Potassium Permanganate - 1.5%	0

Miscellaneous	Result
Hair Dye	3
Hand Sanitizer (Alcohol Based) – Purell	0
Hematoxylin	0
Lemon Eze Cream Cleanser	0
Shoe Polish Paste – Brown	2
Tar	2

Office	Result
Ball Point Pen	0
Permanent Marker	3

Oils	Result
Mineral Oil *	0
Olive Oil *	0

Organic Solvents	Result
Ethyl (Denatured) Alcohol – 30%	0
Ethyl (Denatured) Alcohol – 70%	0
Ethyl (Denatured) Alcohol – 90%	0
Gasoline *	1
Isopropyl Alcohol – 70% *	0
Kerosene *	0
Mineral Spirits (White Spirit)	0

*ASTM Standard Test Method

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Samples were tested as manufactured (no additional surface treatments). All samples were exposed to reagents for 4 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.

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](https://www.ArmstrongFlooring.com) or contact Armstrong Flooring at 866-243-2726.

0 = No Stain	BL = Bleaching
1 = Slight	D = Dulling
2 = Moderate	G = Gloss
3 = Severe	S = Softening
	R = Reagent left a residue