

Resistance to Staining Reagents

We extensively test all of our products in order to determine how our different flooring products will perform in use—and in particular, 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

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

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.

LVT	HET								HOM		BIO	VCT	SRF (SHEET)	SRF/ESD (TILE)		LAM			COMPANION PRODUCTS
Natural Creations® with Diamond 10® Technology, Vivero® Best, Vivero® Better	Natural Creations® Classics, Natural Creations® with I-Set®, Parallel® 12, Parallel® 20	DecorArt® Rejuvenations™ with Diamond 10® Technology Coating	DecorArt® Rejuvenations™ Classics	DecorArt® Abode™	DecorArt® Possibilities™	DecorArt® Corlon™	DecorArt®	ColorArt® Medintech® & Medintone™ with Diamond 10® Technology Coating	ColorArt® Accolade Plus™	Striations BBT™, Migrations™, BBT™	Premium Excelon™ Standard Excelon™	Safety Zone™	Safety Zone™	Excelon™ SDT™	Light	Medium	Dark	Stair Treads, Risers, Rubber Tiles	

ORGANIC SOLVENTS

Acetone	0	0	0	0	0	0	0	0	0	0, BI	0, S, D	0, D	0, S, D	0, S, D	0, S, D	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0, D	2, S	0, BI	0, S, D	0, D	0, S, D	0, S, D	0, S, D	0	0	0	0, D
Ethyl Acetate	0	0	0	0	0	0	0	0	0	0, BI	0, S, D	0, D	0, S, D	0, S, D	0, S, D	0	0	0	0
Ethyl (Denatured) Alcohol	0	0	0	0	0	0	0	0	0	0	0, D	1	0	0	0	0	0	0	0
Ethyl Ether	0	0	0	0	0	0	0	0	0	0	0, D	0, D	0	0	0	0	0	0	0
Ethylene Glycol (Antifreeze)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Formaldehyde, 10%	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Gasoline	0	0	0	0	0	0	0	0	0	0	0	0, D	0	0	0	0	0	0	0, D
Isopropyl Alcohol	0	0	0	0	0	0	0	0	0	0	0, D	0	0	0	0	0	0	0	0
Kerosene	0	0	0	0	0	0	0	0	0	0, BI	0	0	0	0	0	0	0	0	2
Methyl ethyl ketone (M.E.K.)	0	0	0	0	0	0	0	0	0	0, BI	0, S, D	0, S, D	0, S, D	0, S, D	0, S, D	0	0	0	0, D
Mineral Spirits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Toluene	0	0	0	0	0	0	0	0	0	0, BI	0, S, D	0, S, D	0, S, D	0, S, D	0, S, D	0	0	0	0, D
Trichloroethylene	0	0	0	0	0	0	0	0	0	0, BI	0, S, D	0	0, S	0, S, D	0, S, D	0	0	0	0, D
Turpentine	0	0	0	0	0	0	0	0	0	0	0, D	0	0	0	0	0	0	0	0, D
Xylene	0	0	1	0	0	0	0	0	0	0, BI	0, S, D	0, S, D	0, S	0, S, D	0, S, D	0	0	0	0, D

ALKAL (BASES)

Ammonium Hydroxide, 30%	0	0	0	0	0	0	0	0	0	0	0	0	0	0, D	0	0	0	0	0
Potassium Hydroxide, 15%	1	0	2, D	3	0	3	0, D	0, G	0	0	1, D	0	1	3	0	0	0	0	0, D
Sodium Hydroxide, 50%	1	0	2, D	0	1, D	0	0, D	0, G	0	0	0	0	1	3	0	0	1, B	0	0

ACIDS

Acetic Acid, 28%	0	0	0	0	0	0	0	0	2, S	0, D	0, BI	1	0	0, D	0	0	0	0	1, D
Acetic Acid, Glacial	0	0	0	0	0	0	0	0	3, S	0, D	1, D	2	0	0	0	0	0	0	1, D
Hydrochloric Acid, 38%	0	0	0	0	1, D	0	0	0	2, S	0, D	0, BI	0	0	0	0	1	1, B	2, B	0, D
Lactic Acid, 10%	0	0	0	0	0	0	0	0	1, S	1, BI	0, BI, R	0	0	0, R	0	0	0	1, D	1, D
Nitric Acid, 15%	0	0	0	0	0	0	0	0	3, S	0	0, BI	0	0	0, D, R	2	1, B	2, B	1, D	1, D
Phosphoric Acid, 85%	0	0	0	0, D	0	0, D	0	0	3, S	1, BI	0, BI, R	0	0, D	0, BI, R	0	0	1, D	1, D	1, D
Sulfuric Acid, 40%	0	0	0	0, BI	0	0, BI	0	0	2, BI	1, BI	0, BI, R	0	0, D	0, BI, R	1	0	0	1, D	1, D
Sulfuric Acid, 10%	0	0	0	0	0	0	0	0	2, BI	1, BI	0, BI, R	0	0, D	0, D	0	0	0	0	0, D

SALT SOLUTIONS

Calcium Chloride, Sat'd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper Sulfate, 10%	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Ferric Chloride, 10%	0	0	0	1	0	1	0	0	0	2	2	0	2	2	0	1	0	1	1
Silver Nitrate, 1%	0	0	0	1	1, D	1	0	0	0	0	2	0	2	3	0	0	0	0	1

MEDICAL STAINS & REAGENTS

Aniline Blue, 2.5%	0	0	0	0	1, D	0	0	0	0	1	1	0	1	1	2	0	0	0	1
Auramine Rhodamine	0	1	2	3	3	3	2	2	3	2	2	2	2	2	2	0	0	0	1
Basic Fuchsin	1	1	1	3	3	3	3	2	0	3	2	2	2	2	3	1	0	0	0
Betadine® Skin Cleanser	0	0	0	2	0	2	1	1	0	1	1	0	1	2	0	0	0	0	1
Betadine® Solution, 10%	0	0	0	2	0	2	1	1	0	1	1	2	1	2	0	0	0	0	1
Bromocresol Green	0	1	1	2	3	2	2	2	3	1	1	2	1	2	0	0	0	0	0
Carbol Fuchsin	1	1	1	1	3	1	1	2	2	3	3	2	3	2	3	0	0	0	1
Eosin, 1%	0	1	0	2	2	2	2	0	0	1	1	0	2	2	1	0	0	0	1
Gentian Violet, 2%	3	2	3	3	3	3	3	3	3	3	3	3	2	3	3	1	0	0	1
Glutaraldehyde	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iodine Tincture	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	1	3
Iodine Gram Stain	1	1	2	3	2	3	3	3	1	2	2	3	2	2	0	0	0	1	2
Iodoform, 1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lugol's Solution	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	3
Merthiolate Tincture	1	2	0	2	2	2	2	1	0	2	3	0	2	3	14	0	0	0	2
Methylene Blue	0	1	1	2	1, D	2	2	1	0	2	2	1	2	3	1	0	0	0	2
Picric Acid, 1%	0	1	1	3	3	3	2	2	1	2	3	3	2	3	0	0	0	0	3
Potassium Permanganate, 0.5%	1	3	2	3	3	3	3	2	1	2	2	1	2	3	1	0	1	0	0
Tincture of Benzoin	1	3, R	2, R	3, R	3	3, R	3, R	1	3, R	2, R	3, R	1	3, R	3, R	1	1	2, R	3, R	3, R
Urea Solution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wright's Blood Stain	2	2	2	3	3	3	3	2	3	2	3	3	3	3	1	1	0	0	1

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 ArmstrongFlooring.com/commercial.

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DISINFECTANTS AND CLEANERS

Ethyl Alcohol-Based Hand Sanitizer, 70%	0	0	0	0	0	0	0	0	0	0,D	0,D	0	0,D	0,D	0	0	0	0
Clorox®	0	0	0	0	D, R	0	0	0	0,Bl	0	0,D	0	0	0	0	0	0	0
Comet® Bathroom Cleaner	0	0	0	0	R	0	0	0	0	0,D	0,D	0	0	0	0	0	0	0,D
Hydrogen Peroxide	0	0	0	0	0	0	0	0	0	0	0,D	0	0	0	0	0	0	0,D
Lysol® Liquid Disinfectant	0	0	0	0	R	0	0	0	0	0,D	0,D	0	0	0	0	0	0	0,D

FOOD SERVICE

Catsup	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0,D
Coffee, Hot Black	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Cola Drink	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
French Dressing	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0,D
Mustard	0	1	1	2	3	2	2	1	0	2	2	2	2	2	2	0	0	1
Red Food Color	0	2	1	2	3,D	2	2	1	2	2	1	1	2	2	2	0	0	0
Red Wine	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0
Soy Sauce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spaghetti Sauce	0	0	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	1
Tea, Hot Black	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0,D
Tomato Paste	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0,D

OFFICE

Ball Pen Ink	3	2	3	2	3	2	3	3	3	3	3	3	3	3	3	2	1	2
Carbon Paper Smudge	0	0	2	0	2	0	0	0	1	2	2	0	0	1	0	0	0	2
Fountain Pen Ink	0	0	0	0	0	0	0	0	0	2	2	1	1	2	1	0	0	2
Lead Pencil	0	0	1	1	1	1	0	0	0	2	1	0	0	0	0	0	0	2
Permanent Black Marker	2	3	2	3	3	3	3	2	3	3	3	3	3	3	2	0	0	3
Red Crayon	0	2	1	2	2	2	2	0	0	2	2	0	2	1	0	0	1	0
Red Tempura Paint	0	0	0	0	1	0	0	1	0	1	1	1	1	0	1	1	0	0

OILS

Beef Tallow, Hot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
Canola Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
Cottonseed Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
Brake Fluid	0	0	0	0	0	0	0	0	0	0,D	0,D	0	0	0	0	0	0	0,D
Dextron Transmission Fluid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,D
Mineral Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
Olive Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
SAE #10 Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
30 wt. Non-Detergent Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0,D
Used Motor Oil	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	1,D

MISCELLANEOUS

Asphalt Driveway Sealer	0	3,R	0	3,R	3,D	3,R	3,R	1	0	1	1	1	3,R	3,R	2	0	0	0
Blue Chalk	0	1	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	1
Black Rit Dye	0	1	0	3	3	3	3	1	0	1	3	1	2	3	0	0	0	1
Eye Shadow	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	0	0
Hair Color	2	2	2	3	3	3	3	3	2	1	3	3	3	3	1	0	0	1
Lipstick	0	0	0	2	2	2	1	0	1	1	2	1	1	2	0	0	0	1
Perfume	0	0	0	0	0	0	0	0	0,Bl	1	0	0	1	1	0	0	0	
Red Candle Wax	0	2,R	0	3,R	3,R	3,R	2,R	0	0	1	2,R	0	3,R	3,R	1	0	0	2,R
Red Nail Polish	0	3,R	0	3,R	3,R	3,R	3,R	0	3,R	3,R	3,R	3,R	3,R	3,R	0	3,R	3,R	3,R
Shoe Polish, Liquid Brown	0	1	0	0	3	0	0	0	0	1	1	1	1	1	1	0	0	0
Shoe Polish, Paste Brown	0	3,R	0	3,R	3,R	3,R	3,R	1	1	3	3,R	3	3,R	3,R	1	0	0	2

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