

Resistance to Staining and Reagents - Specialty - ESD

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

	SPECIALTY ESD SDT**
Organic Solvents	
Acetone	0, S, D
Chloroform	0, S, D
Ethyl Acetate	0, S, D
Ethyl (Denatured) Alcohol	0
Ethyl Ether	0
Ethylene Glycol (Antifreeze)	0
Formaldehyde - 10%	0
Gasoline	0
Isopropyl Alcohol	0
Kerosene	0
Methylene Chloride	0, S, D
Methyl ethyl ketone (M.E.K.)	0, S, D
Mineral Spirits	0
Perchloroethylene	0, D
Toluene	0, S, D
Trichloroethylene	0, S, D
Turpentine	0
Xylene	0, S, D
Alkali (Bases)	
Ammonium Hydroxide - 30%	0, D
Potassium Hydroxide - 15%	3
Sodium Hydroxide - 50%	3
Acids	
Acetic Acid - 28%	0, D
Acetic Acid - Glacial	0
Hydrochloric - 38%	0
Lactic Acid - 10%	0, R
Nitric Acid - 15%	0, D, R
Phosphoric Acid - 85%	0, Bl, R
Sulfuric Acid - 40%	0, Bl, R
Sulfuric Acid - 10%	0, D
Salt Solutions	
Calcium Chloride - Sat'd	0
Copper Sulfate - 10%	0
Ferric Chloride - 10%	2
Silver Nitrate - 1%	3
Medical Stains & Reagents	
Aniline Blue - 2.5%	1
Auramine Rhodamine	2
Basic Fuchsin	2
Betadine® Skin Cleanser	2
Betadine Solution - 10%	2
Bromocresol Green	2
Carbol Fuchsin	2
Eosin - 1%	2
Gentian Violet - 2%	3
Glutaraldehyde	0
Iodine Tincture	3
Iodine Gram Stain	2
Iodoform - 1%	0
Lugol's Solution	3
Merthiolate Tincture	3
Methylene Blue	3
Picric Acid - 1%	3
Potassium Permanganate - 0.5%	3
Tincture of Benzoin	3, R
Urea Solution	0
Wright's Blood Stain	3
Embalming Chemicals	
Pre-tresol - Pre-injection	0, D
Kelcavex - Cavity	0, D
Kelspecial® - Arterial	0
Presinol - Arterial	2
Disinfectants and Cleaners	
Clorox®	0
Comet® Bathroom Cleaner	0
Hydrogen Peroxide	0
Lysol® Liquid Disinfectant	0
Food Service	
Catsup	0
Coffee - Hot Black	0
Cola Drink	0
French Dressing	0
Mustard	2
Red Food Color	2
Red Wine	1
Soy Sauce	0
Spaghetti Sauce	1
Tea - Hot Black	0
Tomato Paste	0
Office	
Ball Pen Ink	3
Carbon Paper Smudge	1
Fountain Pen Ink	2
Lead Pencil	0
Permanent Black Marker	3
Photo Copy Toner (Powder)	0
Red Crayon	1
Red Tempura Paint	0
Oils	
Beef Tallow - Hot	0
Canola Oil	0
Cottonseed Oil	0
Brake Fluid	0
Dextron Transmission Fluid	0
Mineral Oil	0
Olive Oil	0
SAE #10 Oil	0
30 wt. Non-Detergent Oil	0
Used Motor Oil	1
Miscellaneous	
Asphalt Driveway Sealer	3, R
Blue Chalk	1
Black Rit Dye	3
Eye Shadow	0
Hair Color	3
Lipstick	2
Perfume	1
Red Candle Wax	3, R
Red Nail Polish	3, R
Shoe Polish - Liquid Brown	1
Shoe Polish - Paste Brown	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 to 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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 Kelspecial® is a registered trademark of Kelco Supply Company
 Clorox® is a registered trademark of The Clorox Company
 Comet® is a registered trademark of The Comet Products Corporation
 Lysol® is a registered trademark of Linden Corporation

Resistance to Staining and Reagents - Specialty - Slip Retardant

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

	SPECIALTY SLIP-RETARDANT*		
	SAFEGUARD™	SAFEGUARD Spa™	SAFETY ZONE™
Organic Solvents			
Acetone	0	0	0, S, D
Chloroform	0, Bl	0	0, S, D
Ethyl Acetate	0	1, R	0, S, D
Ethyl (Denatured) Alcohol	0	0	0
Ethyl Ether	1	0	0
Ethylene Glycol (Antifreeze)	0	0	0
Formaldehyde - 10%	0	0	0
Gasoline	0	0	0
Isopropyl Alcohol	0	0	0
Kerosene	0	0	0
Methylene Chloride	0, Bl	2	0, S, D
Methyl ethyl ketone (M.E.K.)	0	0	0, S, D
Mineral Spirits	0	0	0
Perchloroethylene	0	0	0, S
Toluene	0	0	0, S
Trichloroethylene	0	0	0, S
Turpentine	0	0	0
Xylene	0	0	0, S
Alkali (Bases)			
Ammonium Hydroxide - 30%	0	0	0
Potassium Hydroxide - 15%	1	0	1
Sodium Hydroxide - 50%	0	0	1
Acids			
Acetic Acid - 28%	0	0	0
Acetic Acid - Glacial	0	0	0
Hydrochloric - 38%	0	0	0
Lactic Acid - 10%	0	0	0
Nitric Acid - 15%	0	0	0
Phosphoric Acid - 85%	0	0, D	0, D
Sulfuric Acid - 40%	0	0	0, D
Sulfuric Acid - 10%	0	0	0, D
Salt Solutions			
Calcium Chloride - Sat'd	0	0	0
Copper Sulfate - 10%	0	0	0
Ferric Chloride - 10%	0	0	2
Silver Nitrate - 1%	0	0	2
Medical Stains & Reagents			
Aniline Blue - 2.5%	1	0	1
Auramine Rhodamine	2	1	2
Basic Fuchsin	2	2	2
Betadine® Skin Cleanser	2	0	1
Betadine Solution - 10%	0	0	1
Bromocresol Green	1	1	1
Carbol Fuchsin	2	2	3
Eosin - 1%	2	1	2
Gentian Violet - 2%	3	3	2
Glutaraldehyde	0	1	0
Iodine Tincture	3	2	3
Iodine Gram Stain	2	1	2
Iodoform - 1%	0	0	0
Lugol's Solution	1	2	3
Merthiolate Tincture	3	1	2
Methylene Blue	1	2	2
Picric Acid - 1%	2	2	2
Potassium Permanganate - 0.5%	2	1	2
Tincture of Benzoin	2	2	3, R
Urea Solution	0	0	0
Wright's Blood Stain	3	2	3
Embalming Chemicals			
Pretresol - Pre-injection	0	0	0
Kelcavex - Cavity	0	0	0
Kelspecial® - Arterial	0	0	0
Presinol - Arterial	0	0	1
Disinfectants and Cleaners			
Clorox®	0	0	0
Comet® Bathroom Cleaner	0	0	0
Hydrogen Peroxide	0	0	0
Lysol® Liquid Disinfectant	0	0	0
Food Service			
Catsup	0	0	0
Coffee - Hot Black	0	0	0
Cola Drink	0	0	0
French Dressing	0	0	0
Mustard	2	1	2
Red Food Color	3	1	2
Red Wine	0	0	0
Soy Sauce	0	0	0
Spaghetti Sauce	1	0	1
Tea - Hot Black	0	0	1
Tomato Paste	0	0	1
Office			
Ball Pen Ink	2	2	3
Carbon Paper Smudge	2	1	0
Fountain Pen Ink	1	1	1
Lead Pencil	2	1	0
Permanent Black Marker	3	3	3
Photo Copy Toner (Powder)	1	0	0
Red Crayon	1	1	2
Red Tempura Paint	1	0	1
Oils			
Beef Tallow - Hot	0, D	0	0
Canola Oil	0	0	0
Cottonseed Oil	0	0	0
Brake Fluid	0	0	0
Dextron Transmission Fluid	0	0	0
Mineral Oil	0	0	0
Olive Oil	0	0	0
SAE #10 Oil	0	0	0
30 wt. Non-Detergent Oil	0	0	0
Used Motor Oil	0	0	1
Miscellaneous			
Asphalt Driveway Sealer	1	1	3, R
Blue Chalk	1	1	1
Black Rit Dye	3	3	2
Eye Shadow	0	0	0
Hair Color	3	2	3
Lipstick	2	1	1
Perfume	1	0	0
Red Candle Wax	1	1	3, R
Red Nail Polish	3, R	3, R	3, R
Shoe Polish - Liquid Brown	1	1	1
Shoe Polish - Paste Brown	3	3	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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