



## Cleaning Graphics Coated with EnduraCoat UltraStain Resist

The procedure for removing stains from digital print images protected with EnduraCoat UltraStain Resist is based on specific cleaning agents to use for most typical stains (see tables below). In most cases the stain can be removed without a trace. Cleaners should be applied generously using a soft cloth with very light pressure. A soft bristle brush is recommended for use in cleaning irregular application surfaces.

### CLEANING PROCEDURES:

Condition	Cleaning Method
0	= Dry cloth only
1	= Damp cloth only
2	= Mild soap and water
3	= High-strength household detergent
4	= Solvent Cleaner

- **Condition 0 & 1: Cloth Only, Wet or Dry.**
  - Many staining agents such as gasoline, rubber scuff marks, and coffee stains can simply be wiped from the graphic with either a wet or dry cloth. Allow the stain to dry to the touch, then wipe away with soft cloth
- **Condition 2 & 3: Soap, Household Detergent**
  - Most stains such as catsup, black crayon, or lipstick, use a warm, full strength solution of detergent and water. Rinse with warm water.
- **Condition 4: Solvent Cleaner**
  - For stains with heavy oil or grease bases or paint, please consult table 2 for recommended solvents. In cases such as permanent markers or ink pen – commercial fabric cleaning fluids may be used.

The chemical and stain resistance properties of EnduraCoat UltraStain Resist liquid laminate have been tested in lab conditions, particularly those where staining agent has been permitted to “set” on the surface for 24 hours or more. Laboratory tests have confirmed that the graphics are resistant to staining, easy to clean and will not fade or streak using these cleaning procedures.

**Table 1:** Stain Identification and Treatment

Type Stain	Condition	Type Stain	Condition
Acetic Acid	0	Ink (ballpoint pen)	4
Ammonia (10%)	0	Ink (marking pen - nonpermanent)	4
Butter	2	Lipstick	3
Blood	1	Milk	1
Brown Shoe Polish	4	Red Wine	1
Catsup	3	Spray Paint (ie Krylon®)	4
Chocolate Syrup	1	Rubber Scuff Marks	0
Coffee	1	Tea	2
Crayon (Black)	3	Pencil	4
Gasoline	0	Sharpie (note: slight ghosting may exist after cleaning)	4 (Xylene)
Grape Juice	1	Urine	1
Grease (Asphalt)	3	Vinegar	1

**Table 2:** Recommended Detergents & Solvent Cleaners

<b>Detergents</b>	<b>Solvent Cleaners</b>
Simple Green®	Formula 409® All Purpose Cleaner
Dawn®	Fantastik® Bathroom Cleaner
Joy®	Shout® Laundry Stain Remover
	Goo Gone®
	Krud Kutter®
	Kaboom®
	Toluene (Aromatic Solvent)
	Mineral Spirits
	Xylene

EnduraCoat UltraStain Resist is not resistant to the following solvents and cleaners. Additionally, these solvents and cleaners have been found to destroy or impair the coating performance and/or image upon use.

**Table 3:** DO NOT USE the following Solvents and Cleaners

<b>Solvent &amp; Cleaners</b>
Goof Off®
Ethanol
MIBK
Methy Ethyl Keytone (MEK)
Acetone

This information is provided to assist users of the product with cleaning and stain removal for fully cured coatings on digital graphics. The film properties of EnduraCoat UltraStain Resist may not be fully developed for at least 60 hours after lamination. Selections of substrates, inks and curing conditions may alter the performance of the coating. It is the users' responsibility to test their product for the intended application to ensure that the final product meets the required performance specifications.