



OUR SCIENCE – DUAL-ACTION CLEANING & SURFACE PROTECTION

The research & development that led to the multi-functional surface care technologies offered by Unelko was predicated on these irrefutable facts of surface care and surface hygiene:

1. No matter how much we clean, sanitize or disinfect surfaces, we cannot prevent their re-soiling or re-contamination. Daily dirt, grime and germ-containing organic soil just keep coming back.
2. Even hard surfaces are like sponges; they have microscopic pores that trap water, organic and inorganic soil that build up to form scale, scum and biofilms that are difficult to remove.
3. Most surfaces, as they age or weather, become more “hydrophilic”, i.e., they allow water and soil to wet out on the surface and increase the level of soil & mineral adhesion as water evaporates.
4. Conventional soaps, solvents and detergents – while helping to clean the surface – invariably leave surfaces in a more “wetable” condition that not only attracts re-soiling, but promotes soil adhesion and buildup.
5. Surface-contact bacteria, virus and fungi are invariably deposited in conjunction with some form of organic soil (including fingerprints, foods, body fluids and body wastes) on which they depend for the nutrients required by them to thrive.
6. Germs are easily and quickly spread to other surfaces and to other people by hand-to-hand, hand-to-surface, surface-to-hand and hand-to-body orifice contact in a non-ending cycle of cross-contamination.
7. The thousands of germ species are absolutely invisible to the naked eye. Thus, without swab-testing, culturing and microscopically analyzing the extract, no surface-contact bacteria, virus or fungi can be identified for inactivation and removal using conventional products.
8. When used as directed, conventional sanitizers and disinfectants all require some form of pre-cleaning of the surface, followed by misting/wetting/flooding of the surface with the composition for germ-dependent time periods ranging from 30 seconds to 20 minutes. Unless surfaces are then washed or rinsed to remove the biocidal residues, when re-contaminated, the surfaces can actually promote the adhesion & buildup of organic soil and the formation of biofilms.
9. Since it is impossible to “flood” and “keep wet” the multitude of vertical or rounded surfaces that are amongst the most contaminated of all surfaces – walls, door knobs, railings, keyboards, furniture, faucets, phones and other equipment – they are not being disinfected by conventional antimicrobial products!
10. You can take the guesswork out of cleaning and sanitation...by cleaning the soil that you can see, you automatically take care of the germs that you cannot see.

Unelko’s new dual-action surface cleaning & shielding technologies are the perfect alternative for easier cleaning and improved surface hygiene. These “non-stick” surface coating technologies – unlike polytetrafluoroethylene (PTFE) – are invisible and renewable. The newly-patented, solvent and surfactant-free compositions clean everyday soil...and simultaneously shield surfaces with invisible water, soil & stain repellent barrier coatings that effectively reduce the adhesion & buildup of all types of soil and hard water minerals for easier next-time cleaning...and prevent the growth of odor-causing bacteria, mold & mildew in-between cleaning.