

Biotechnology enhances cleaning and smell control technology

Stable microbial cultures in biological cleaning formulae give a safe, natural solution to dirt and smell control both in industry and households.

Biological, ecological cleaning products contain a mixture of safe chemical products and natural microorganisms and have a variety of applications in household cleaning and maintenance and in large public institutions like schools, universities, hospitals and recreational centres. These cleaning products may be used to:

- Eliminate sources of unpleasant smells from carpets, upholstery, kitchens and bathrooms.
- Thoroughly clean hard surfaces, eliminating the most stubborn grease and grime.
- Eliminate spills of grease, petrol and oil from roads, garage floors and entrance paths.
- Keep drainage channels free and without smells, eliminating all blockage.
- Keep aquariums clean and healthy, and lighten fishponds,
- Control smells and avoid excessive pumping in septic tanks.

Dominating nature's cleaning agents

In nature, a large quantity of microorganisms and fungi segregate enzymes that break down the organic waste into chemical components essential for life. These chemical components have been slowly but continuously recycled in this way since the beginning of time. BIOKATAL has managed to control this natural phenomenon to develop efficient cleaning technologies without any need for harmful chemical processes.

Therefore, anywhere organic waste accumulates, the microorganisms and the enzymes they produce can help to break them down and control the unpleasant smells.

Microbial technology was a pioneer in industrial and public waste water treatment in the 1970s. At this time commercially selected bacterial strains were used to enhance the activity of the natural microorganisms to accelerate the breakdown of the polluting organic waste. This natural method was so efficient in waste water treatment that the technology rapidly spread to later problems such as drainpipes, grease filters and septic tanks. It soon became clear that microbial technology also offered a solution to some of the dirtiest problems in the household and in public institutions.

Intelligent cleaning

Unlike normal chemical cleaning products, microbial technology offers intelligent cleaning specifically designed for the type and intensity of the dirt. Essentially each of the thousands of millions of microorganisms in biological cleaning products is a living, self-regulating factory of enzymes. The microorganisms detect the type and quantity of organic material around them and segregate the right amount of enzyme to break it down.

This intelligent technology is ideal for attacking the dirt trapped in places difficult to get at. For example, if food is lost on the carpet, it can get through the hair into the backing and accumulate on the floor under the carpet. Normal chemical cleaning agents can clean the carpet's surface fibres, but are not capable of eliminating the residual waste at the bottom that causes the reappearance of stains and smells. On the other hand, the microorganisms contained in biological cleaning products follow the dirt to the base of the carpet, where they segregate their enzymes that eliminate all organic waste to leave the carpet totally clean and smell-free.



Lasting effect

Biological cleaning products continue to clean and deodorise long after they are applied. Unlike normal chemical cleaning products whose cleaning effect is fast and short, the microorganisms in the biological products slowly but continuously segregate enzymes, which eliminate the dirt always left by organic waste and damp. Most biological cleaning products incorporate the best of both worlds, combining safe chemical products for fast action and microbial cultures for continuous deep cleaning and freshness,

The residual action of biological cleaning products is particularly useful for eliminating the often unreachable causes of blockages in drainpipes. With time, domestic and institutional pipes can block with natural waste and grease, which causes a build-up of rotten organic material that can cause an unpleasant smell. Biological cleaning products break down pipe blockages and eliminate the cause of the problem. The regular use of biological cleaning products contributes to preventing blocked pipes becoming a very costly acute problem.

Safety first, naturally

BIOKATAL only uses the safest microorganisms in its biological technology. All of biological strains are subject to complete control of their safety.

The use of microorganisms eliminates the need for many of the harmful chemical products contained in traditional cleaning products. This not only simplifies the storage and transportation of cleaning products, but also gives domestic and institutional users greater protection both in general use and in the event of accidental spill. As the microorganisms in these cleaning products only break down the organic waste, the powerful biological cleaning products can be used without any risk of harming installations, accessories and fabrics.