



BIO CLEANING SOLUTIONS

GreenWorx

CLEANING SOLUTIONS

Odorite™ Ultra Deep Clean 10X Concentrate

Bio-enzyme floor and surface cleaning technology

Advanced innovation in floor and hard surface cleaning technology Floor and hard surface cleaning technology (extended microbial cleaning capability)

Double-action **Odorite™ Ultra Deep Clean 10X** is the latest innovation in cleaning technology. The advanced formulation technology for removing greasy soils provides superior, immediate cleaning of surface soils, comparable to industrial-strength floor cleaners. The bio-enzymatic action penetrates deep into the pores of the surface to attack and remove embedded residual soils.

Aerosolized grease and food spills collect particulate soils contributing to the build-up of grime on kitchen floors. Residual organics collect in the microscopic pores of the surface, cracks, corners, and grout. Floors are not clean as long as these embedded soils remain and detergents alone cannot penetrate these layers of residual grime. The organic deposits pack deep into surface irregularities and are capable of producing malodours and supporting unwanted insects and bacteria.

Odorite™ Ultra Deep Clean 10X removes this grime with dual technology unequalled by chemistry alone. It combines superior surfactant technology with bio-enzymatic action. The proprietary bacillus consortium attacks the most resistant grease, oil and fat deposits while producing increased levels of protease, amylase, cellulose, esterase and xylanase enzymes when compared to competitor products. This powerful combination provides an exceptional ability to break down residual organic soils. Regular use of **Odorite™ Ultra Deep Clean 10X** removes layer upon layer of embedded grime. Continued use prevents future build-up of organic soil and grime keeping the floor truly deep-clean, odour-free and controls potentially harmful microorganisms.

How does Odorite™ Ultra Deep Clean 10X eradicate microorganisms?

The killing time as described by various SABS standards, being the quickest time a sanitiser or disinfectant is seen to kill the most common microorganisms, *S. aureus*, *E. coli* and *P. aeruginosa* within a cleaning/disinfection operation, is not of the essence – duration and longevity to kill or eradicate potentially harmful microorganisms is fundamental. From a hygiene and safety point of view, one may need to sanitise/disinfect and this action needs to continue working for longer than what the SABS test methodologies describe.

Odorite™ Ultra Deep Clean 10X is a consortium of Bacillus-containing cleaning product, which makes it different to that of chemicals designed to disinfect as these are live bacteria that need to compete with other (harmful) microorganisms for available food sources. Therefore, the longer contact times required by comparison to the one minute chemical based products that have a short half-life. The pattern that bacillus uses (as seen in the challenge test study) to kill or out-compete microorganisms is shown to be due to its morphological structure. In other words, where the Bacillus colony forming unit multiplies at a phenomenal rate (doubling in number every 2 hours), other microorganisms will move away from that site of the food source.

Since the active ingredient of **Odorite™ Ultra Deep Clean 10X** has a larger morphological structure than other organisms (competing against it) it creates a zone of inhibition of growth of other microorganisms (morphological inhibition) hence, we get fewer numbers of other microorganisms surviving but more bacillus. Therefore, we have a cleaner area with few potentially harmful microorganisms as their growth/multiplication has been halted.

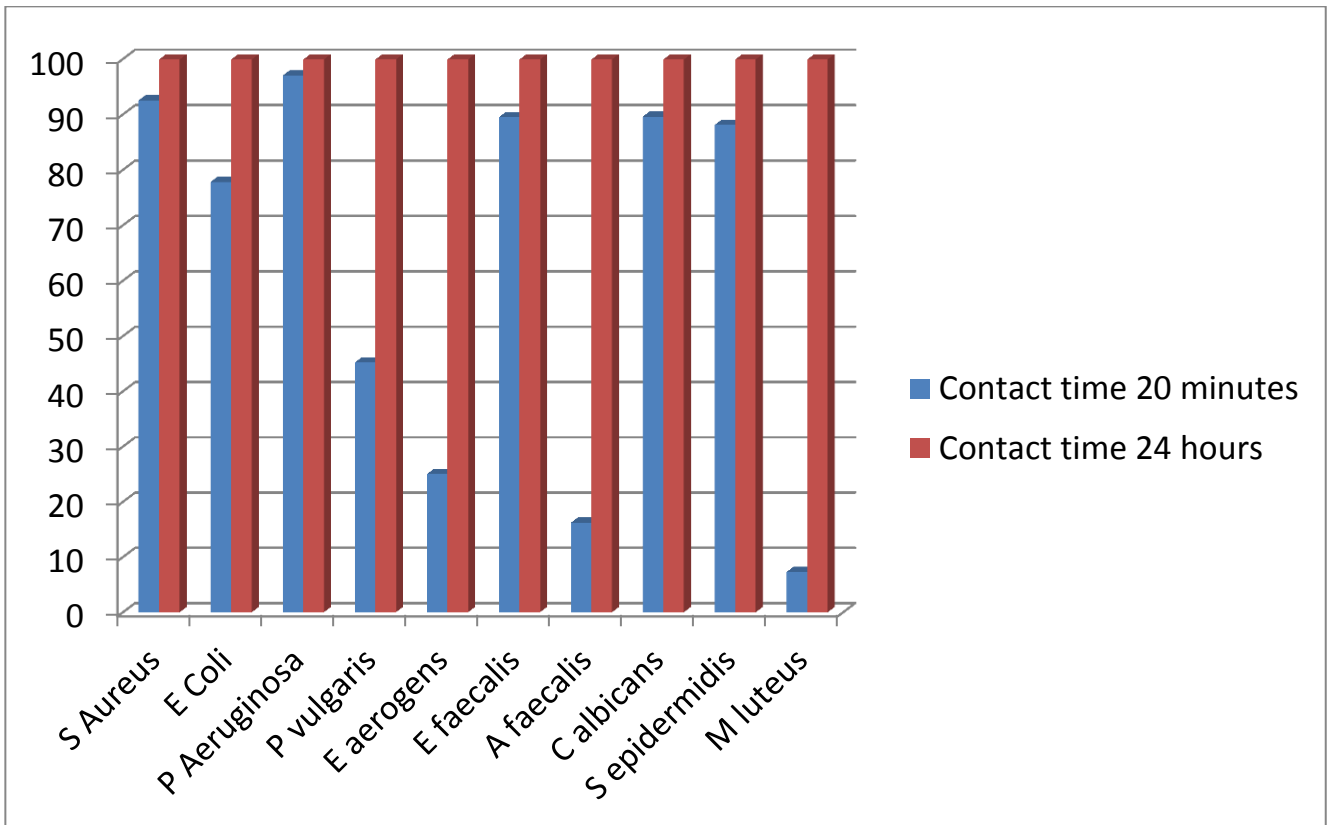
DATA SHEET

Benefits	Features
<ul style="list-style-type: none"> Specifically designed for cleaning floors and hard surfaces Deep-cleans floors and grout by removing the grease and grime that collects in the pores of the floor surface Eliminates the greasy floor coating that causes slipperiness Improves freshness by controlling odours from residual organics packed into irregular floor surfaces Eliminates the need for rinsing after mopping Degrades residual organic soils that help support insects and other unwanted pests Eradicates potential harmful microorganisms 	<ul style="list-style-type: none"> Specifically selected, highly effective bacteria multi-strain formula for: <ul style="list-style-type: none"> Production of lipase to cleave fats (lard, butter, olive oil and vegetable oil) Production of other extracellular enzymes to degrade food solids and sludge (excretion of high levels of amylase, cellulase, lipase, protease, esterase and xylanase enzymes providing a wider range of degradation capabilities including short- and long-chain fatty acids, proteins, fats, oils, cellulose, carbohydrates, esters and plant cell walls) A synergistic blend that works in concert to provide superior

- performance in cleaning applications
- Ability to work under aerobic and anaerobic conditions
- A proprietary inhibitory system that provides excellent product stability
- Product contains Bacillus bacteria in 100% spore form for:
 - Extended product life
 - Product stability

Graphic representation of Odorite™ Ultra Deep Clean 10X 's superiority in killing/eradicating common microorganisms:

Killing efficacy of Odorite™ Ultra Deep Clean x10 against 10 different microorganisms @ 1:4 dilution rate and 24 hours contact time



*Full challenge test study available from Green Worx

The killing efficacy (PK) of Odorite™ Ultra Deep Clean 10X per organism tested against was calculated using equation:

Where:

- % Kill (PK): percentage kill (expressed as a percentage)
- Control (CFU): the number of surviving colonies in a control sample
- Test (CFU): the number of surviving colonies in a test sample

For contact time of 48 hours, the killing efficacy could not be calculated as the control counts were TNTC (Too Numerous to Count).

Study discussion:

The killing efficacy was calculated from the difference in surviving colonies between the control sample (blank) and a product. At longer contact times, the surviving colonies for the control samples were TNTC and PK could not be counted.

Please note that in terms of the relevant legislation the Directorate: Food Control administers, the onus is on the person in charge of a food premises to ensure that any substances used are effective and/or does not contaminate the foodstuffs handled on such premises, including Biological and Enzymes. It is important to note that in this regard, the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act 54 of 1972) states the following:

2. Prohibition of sale, manufacture or importation of certain articles.—

(1) Subject to the provisions of subsection (2) and section 6, any person shall be guilty of an offence—

(b) if he sells, or manufactures or imports for sale, any foodstuff or cosmetic—

(i) which is contaminated, impure or decayed, or is, or is in terms of any regulation deemed to be, harmful or injurious to human health; or

(c) if he sells, or manufactures or imports for sale, any foodstuff—

(i) which contains or has been treated with a substance not present in any such foodstuff when it is in a normal, pure and sound condition;

Further to the above, the Regulations Governing the General Hygiene Requirements for Food Premises and the Transport of Food, R.918, state the following in this regard:

(4) A surface referred to in sub regulation (1) and a facility referred to in sub regulation (2) shall be -

(b) cleaned and washed, as and when necessary, during and/or immediately after the handling of food, so that contamination of the food that comes into contact with any such surface or facility is prevented, and any such surface or facility shall, before food comes into direct contact therewith,

contain -

(ii) no remains of cleaning materials or disinfectants which may pollute the food.

The mentioned Act does not require for any substances used on a food premises for cleaning purposes to be approved by this Department.

The above is an extract of comment of the act by Mr. A. Pretorius Director (Mr AWJ Pretorius pretoa@health.gov.za) is the chairperson of the Food Legislation Advisory Group (FLAG) and serves on a number of other committees that are relevant to the functions of the Directorate.

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Available packaging:

- 5 and 25 litre container(s)

Recommended dilution directions for concentrate:

- **Odorite™ Ultra Deep Clean 10X** can be diluted for various applications.
- For intense deep cleaning purposes, it is recommended to dilute up to 1:9 (i.e.1 part **Odorite™ Ultra Deep Clean 10X** added to 9 parts water)
- The mixing solution is a guideline and is dependent on the required application and your evaluation of dirt to be cleaned
- Allow 10 – 20 minutes' activation time
- Rinsing is not required after application
- If repackaging, use entire contents of container on the day

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 6.6 x 10⁸ /ml
- **Bacteria Type** : Blend of *Bacillus* Spores
 - ✓ **Protease** – breaks down proteins (e.g. meat, excreted/secreted proteins) into amino acids.
 - ✓ **Lipase** – breaks down fats/grease into fatty acids and glycerol. If not broken down, fats can go rancid and lead to off-odours and blocked drains/fat grease traps.
 - ✓ **Amylase** – starch acts as a glue for dirt – amylases catalyse the break-down of starch into sugars which are then further used as a food source by the bacillus.
 - ✓ **Cellulase** – breaks down cellulosic material.
 - ✓ **Urease** - catalyzes the hydrolysis of urea into break-down products.
 - ✓ **Esterase** - splits esters into an acid and an alcohol in a chemical reaction with water called hydrolysis. Esters have characteristic odours most of which are pleasant/fruity, however can also include onion/garlic and worse odours.
 - ✓ **Xylanase** – help in breaking down plant cell walls.
 - What this means – the bacillus use the multitude of enzymes produced to break down the components of malodour and staining to provide microbial cleaning at the smallest level of dirt/contamination.
- **Salmonella** : Not detected
- **pH** : 8.0 – 9.5
- **Appearance** : Tan liquid
- **Fragrance** : No fragrance added
- **Stability** : Two years at 2° - 35° C

Storage and handling:

- Always store in a cool dry place
- Avoid eye and skin contact
- Wash hands thoroughly with warm, soapy water after handling

Safety of Odorite™ Ultra Deep Clean 10X:

Toxicity testing conducted by outside laboratory revealed no acute oral toxicity, no acute dermal toxicity, and no acute inhalation toxicity at maximum dose. Acute dermal sensitisation studies classify the **Odorite™ Ultra Deep Clean 10X** consortium as non-irritating and it does not elicit a skin sensitisation reaction.

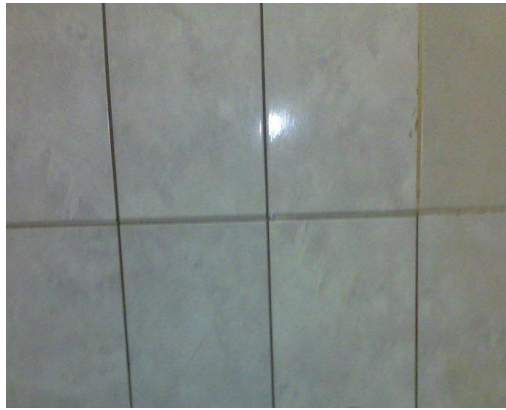
Bio Cleaning Solutions, means Green Technology

This unique formulation meets the criteria for a cleaner, greener, smarter programme for green technology. The bio cleaning solutions designation is used for formulations that utilize biodegradable surfactants at a neutral pH, contains no phosphates, no solvents, and low concentrations of volatile organic compounds (VOC), therefore, it is safe for the user and the environment.

Before



After



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Or visit our website at www.green-worxcs.co

Cleaner. Greener. Smarter.

