

# Floor Plus<sup>TM</sup>

**BIOENZYMATIC CLEANER** Designed for Institutional and Commercial Kitchens & Bathrooms



CCD - 110 Biologically Based  
Cleaning and Degrading

## PRODUCT DATA SHEET

### Technologically Advanced Cleaning

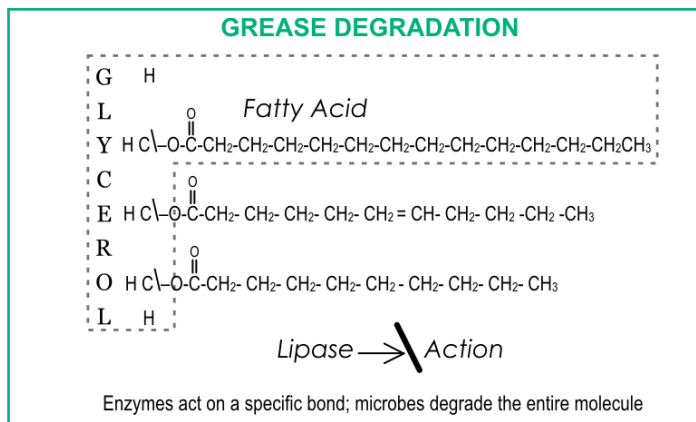
**Floor Plus<sup>TM</sup>** is a newly developed floor care product that utilizes the engineering of **advanced** biotechnology. **Floor Plus<sup>TM</sup>** includes a proprietary microbial colony and enzymatic formulation that provides superior cleaning capabilities over traditional floor care product. This technology incorporated in **Floor Plus<sup>TM</sup>** penetrates porous floor surfaces to breakdown, degrade, and eliminate grease and other organic materials that accumulate over time. This newly designed formulation of microbes and enzymes incorporated in **Floor Plus<sup>TM</sup>** creates a synergistic chemistry that provides long – term deep cleaning by eliminating those imbedded organics lodged in pores, cracks, corners and crevices.

Developed for use on kitchen floors, this biotech formulation incorporates a spore producing, fatty acid degrading microbe that generates enzymes specifically for the decomposition of the hard to degrade fatty acid components found in grease.

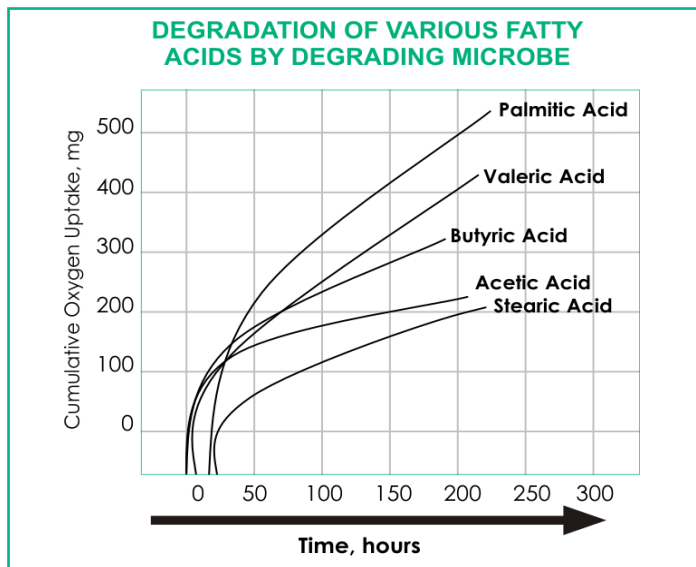
**Floor Plus<sup>TM</sup>** is an environmentally friendly ready-to-use formula specifically developed for the cleaning of ceramic tile floors and grout in institutional, commercial, and household settings. In addition to kitchen floors, **Floor Plus<sup>TM</sup>** works extremely well in bathrooms and locker room facilities. The microbes and enzymes found in **Floor Plus<sup>TM</sup>** are also very effective in the elimination of odors caused from most organics. **Floor Plus<sup>TM</sup>** can be used outdoors (above 55° F for best results) around garbage collection areas, on concrete, concrete pavers, and asphalt to clean embedded organic stains and control odors. For best results, when used outdoors, use after sun-down and do not rinse if conditions permit.

### Benefits

- Cleans floors
- Cleans grout
- Reduces slippage by removing grease
- Controls odors
- Reduces conditions that invite and harbor pests
- Cleans concrete, concrete pavers and asphalt of embedded organic stains
- Enhances customer perceptions



**Figure 1:** Typically, grease molecules are comprised of 3 fatty acids, varying in length, and attached to a glycerol backbone. A variety of microbes have the ability to generate enzymes that breakdown the fatty acids found in glycerol. However, these microbes aren't able to generate the enzymes that degrade the fatty acids. **GeoKleen<sup>TM</sup>**'s fatty acid degrading microbial strain does produce the enzymes necessary for the complete breakdown of fatty acids.



**Figure 2:** The chart illustrates the degradation performance of the fatty acid degrading strain on several problematic fatty acids as measured by oxygen uptake. The data **demonstrates** the ability of fatty acid degrader to grow on any one of these compounds as its only source of food. This is especially important with stearic and palmitic acids which can make up as much as 80% of problem grease deposits.





**Figure 3: Floor Plus™** is formulated with technologically advanced, safe, and environmentally friendly chemicals, microbes, and enzymes. Laboratory tests conducted on greasy floor tiles demonstrated the superb performance of **Floor Plus™** in comparison with standard industrial cleaners. With initial cleaning action equivalent to brand name cleaners on the industrial market, **Floor Plus™** provides fast cleaning action.

### Recommended Use Directions

**New floors** and floors that do not have embedded organic stains and grease build-up:

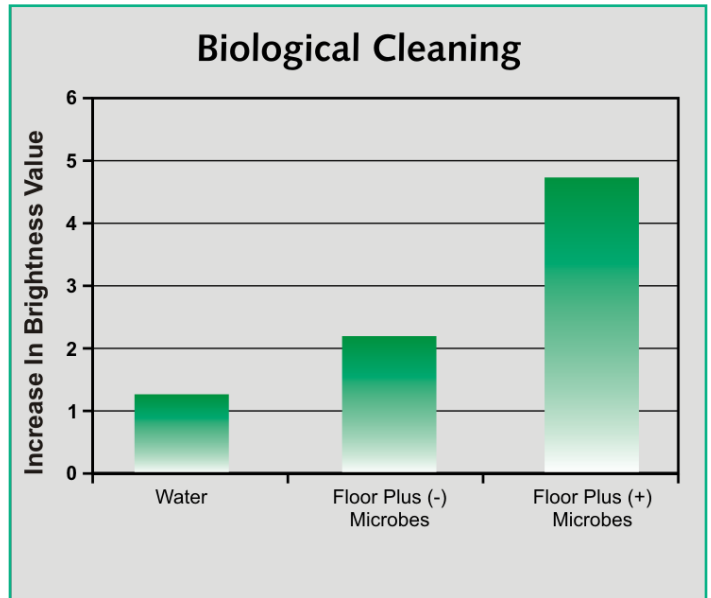
- Mix 2 ounces of **Floor Plus™** per gallon of water. No rinsing required (let air dry).

**Existing floors** with embedded organic stains and grease build-up:

- First 5 days, mix 4 ounces of **Floor Plus™** per gallon of water. No rinsing required (let air dry).
- Thereafter mix 2 ounces of **Floor Plus™** per gallon of water. No rinsing required (let air dry).

**When utilized in food processing facilities, rinsing is required.**

**Floor Plus™** was designed to clean your floors of normal daily grease, grime, and dirt while simultaneously eliminating offensive odors. When using **Floor Plus™** it is important to note that embedded organic stains on your commercial floor will not be eliminated during the first mopping. Stains that have been built-up over an extended period of time will take time to eliminate. Typically, with daily moppings of two to three times a day for ten days, one will notice the floor beginning to lighten up. In a three week period (21 days) your floors will show marked improvement that you and your staff will be proud of.



**Figure 4:** Reflectance data demonstrates the biological removal of grease from floor tiles. Brightness was measured before and after treatment of greasy tiles with a spectrophotometer. An increase in brightness value indicates removal of grease.

If repackaging, use entire contents of pail or drum. Blend slowly for a minimum of thirty minutes to assure proper spore dispersion in solution. Do not allow product to stand without agitation during repackaging.

### Storage and Handling

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

### Product Characteristics

Bacteria Specifications .....	5.4x10 <sup>7</sup> cfu/ml (200 Bil cfu/gal)
Salmonella/Shigella .....	Not Detected
Bacteria Type.....	Blend of Bacillus spores
pH Range .....	7.5 – 8.0
Appearance .....	Blue (colorless after dilution)
Fragrance .....	No fragrance added
Stability .....	2 years at 35° - 95°F (2° - 35° C)

### Available Packaging

- 1 gallon container
- 5 gallon pail
- 55 gallon drum

This product is approved for use in Canada.

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