

# Exelerate™ TUF SOIL FAQ

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# Exelerate™ TUF SOIL FAQ

## PRODUCT ATTRIBUTES

### What is Exelerate™ TUF SOIL and what does it do?

Exelerate™ TUF SOIL is a ready-to-use (RTU) gel cleaner and degreaser targeted to remove tough burnt on soils from fryers, ovens, smokehouses, dryers, catwalks, and other units recommended by your Ecolab representative.

### What are the main benefits of using Exelerate™ TUF SOIL?

The patent-pending formula of Exelerate™ TUF SOIL has attributes which provide multiple benefits such as improved cling time, cleaning performance, and reduced odor noted by users compared to foam alkaline cleaners.

- 1 State-of-the-art chemistry** - the tested combination of KOH and NaOH is optimized to maximize the cleaning performance, and the other formulary components of solvents and surfactants increase the cleaning performance to act like a concentrated product. Other formula components help keep the product from drying on surfaces, allowing for a long dwell time, and thus, better soil removal. The rheology modifier allows all the harsher chemicals to be thickened into a gel, allowing the product to be dispensed in a manner that does not cause it to be atomized. The components work together in a refined, optimized way in order to tackle tough soils.
- 2 Gel product** - as a ready-to-use gel product, the vertical cling time of the product is up to 90 minutes on a hot surface (up to 200°F, 93°C) without drying. This reduces both the time and product spent on re-applying foam products to remove burnt on soils. The cling time also indicates long contact time with the soil, ultimately leading to good cleaning performance. The use of a patent-pending formula and the gel spray application, instead of foaming, provides potential to reduce product atomization. Users noted reduced perceived safety risk and little to no smell during application at trial sites.
- 3 Ready-to-use** - the product is applied without dilution or mixing, therefore there are time savings and reduced risk to users by eliminating mixing of the product and titrating to an appropriate dilution level. The ready-to-use property enhances the gel attributes of the product and maintains high active concentrations which are directly associated with cleaning performance.
- 4 Green dye** - the water-soluble, florescent green dye provides visibility to the product which provides opportunity for controlled usage volume, training opportunities, and efficient rinsing. During application, the dye helps ensure full coverage of the application surface and reduces over-use by being able to see where the product has already been applied. This also provides an opportunity to visually train on proper application of gel products. During rinse, the color highlights areas that have not been properly rinsed and allow for a more efficient cleaning process.
- 5 Non-chlorinated, phosphorous-free formula** - The product is non-chlorinated and does not contain phosphorous.

### **Does the use of Exelerate™ TUFSOIL mean that manual cleaning will be eliminated?**

Exelerate™ TUFSOIL can minimize and even eliminate the need for manual cleaning (e.g. scrubbing, scraping, high pressure water blasting) in certain applications. For intense tough soils from equipment units with a long run time, this may not be feasible. If the product does not have opportunity to penetrate the soils, the soil will require further manual cleaning. To maximize the efficacy of Exelerate™ TUFSOIL, scraping before application and applying on hot surfaces will provide more soil removal.

### **Does Exelerate™ TUFSOIL have any claims against microorganisms?**

No. Exelerate™ TUFSOIL is a cleaner that needs to be rinsed before use of a sanitizer (if in the SOP). While cleaning products remove soils that could harbor microorganisms, Exelerate™ TUFSOIL has no sanitizer claims and is not registered with the EPA or FDA.

### **Where can Exelerate™ TUFSOIL be applied?**

Exelerate™ TUFSOIL acts on carbonized sugars, oils, and proteins. It can be applied on fryers, ovens, dryers, mixers, fryer hood vents, smokehouses, racks, catwalks, walls, ceilings, and other stainless-steel equipment and plant surfaces.

### **What is the storage temperature for Exelerate™ TUFSOIL?**

The storage temperature is recommended to be above 39.2°F (4°C). If the product freezes, keep at room temperature to properly thaw before (or prior to) using.

### **Which materials are compatible with Exelerate™ TUFSOIL?**

Exelerate™ TUFSOIL is not compatible with soft metals and some foam materials. Avoid application to painted surfaces as the product will remove paint.

### **What pack sizes are available for Exelerate™ TUFSOIL?**

Exelerate™ TUFSOIL is offered in 2 sizes: 5-gallon pail and 55-gallon drum.

### **What PPE is required to apply Exelerate™ TUFSOIL?**

Required PPE when using Exelerate™ TUFSOIL:

- Chemical-resistant, impervious gloves (e.g. Nitrile Gloves 13 mil)
- Chemical Splash Goggles
- Face Shield (over the goggles)
- Rubber Chemical Boots
- Chemical Coverall/Rain Suit/Wet Suit - use synthetic apron and other protective equipment as necessary to prevent skin contact
- It is not mandatory to use a respirator, unless ventilation is considered inadequate
- Read the Safety Data Sheet prior to product use

## GEL APPLICATION EQUIPMENT

### How is Exelerate™ TUFSOIL applied?

Exelerate™ TUFSOIL is applied with a custom-built gel spray unit designed to maximize distance and minimize product waste. The unit has a long stainless-steel wand, an air operated pump, options for either a portable or wall mounted unit, and a nozzle to minimize bubbling and product waste. The extended stainless-steel wand allows operators to be further away from the unit during application, which helps to improve operator safety. The nozzle reduces bubbles and agitation at the application point which optimizes the spray pattern of the product. The wand, nozzle, and hose size lead to increased distances for application. Increasing the air pressure will further extend the application distance (recommended 50-60 psi, do not exceed 80 psi per manufacturer's recommendations).

### Can Exelerate™ TUFSOIL be applied with a foamer?

Exelerate™ TUFSOIL was designed to be applied as an RTU gel with a spray applicator, not a foamer. Traditional foamers dilute the product and introduce air during the application. The product will lose some of the optimized properties, specifically vertical cling time due to viscosity changes which will affect the cleaning performance. Introduction of air in a foaming unit also has potential to atomize particles and may cause a caustic odor which may lead to respiratory irritation. For optimal performance, Exelerate™ TUFSOIL should be applied with the gel spray unit to receive all the benefits outlined above.

### Does Ecolab sell equipment for the application of Exelerate™ TUFSOIL?

To ensure the optimal application and performance of Exelerate™ TUFSOIL, a custom-built gel spray unit was designed to be safer, spray farther and minimize product waste. The units are available for sale through Ecolab.

- Wall Mounted Gel Spray Unit
- 30 Gallon Portable Gel Spray Unit

### What are the recommended spray unit application settings?

The optimized settings are pump air pressure between 50-60 psi, do not exceed 80 psi per manufacturer's recommendations. If purchasing the recommended gel spray units, the nozzle will be included, and the air settings will be standard.

## PRODUCT APPLICATION

### Does the fluorescent green dye stain the surfaces?

Exelerate™ TUFSOIL contains a water-soluble dye. In tests carried out on stainless steel surfaces and white HDPE, staining has not occurred.

### How can I make sure the cleaning is complete and there is no chemical residue?

Exelerate™ TUFSOIL's green dye makes it easier to see when applied and rinsed off surfaces. In addition to rinsing any green-colored surface, it's suggested to test the alkalinity of the run-off/wastewater.

Learn more at [ecolab.com/exelerate-tufsoil](https://ecolab.com/exelerate-tufsoil)

