



# Formula 90 Carpet Detergent

## FOR PROFESSIONAL USE ONLY

**CRI and Woollsafe approved Fresh citrus fragrance Great cleaning**

### BACKGROUND

**Formula 90 Carpet Detergent** is a general purpose, mildly alkaline, emulsifying detergent. It is an in-tank product and is specially formulated for use on heavily soiled carpeting. **Formula 90** is compatible with both portable or truck mount extraction systems. It is used in the extraction process after the carpet has been pretreated with a traffic lane cleaner. **Formula 90** includes water conditioning agents, surfactants, alkaline builders and a corrosion inhibitor.

**Formula 90** is moderately alkaline. Alkaline rinse agents are used at very high dilution levels so they leave very little residue on carpet fibers. The combination of modest alkalinity, water conditioning and wetting, however, improves the overall efficiency of the rinse extraction process compared to rinsing with pure water. This is particular value when treating heavily soiled carpets. Because Formula 90 is a liquid, it offers the convenience of rapid solubility, especially when preparing stock solutions or large quantities of ready to use.

**Formula 90** is particularly useful when cleaning the olefin carpets typically used in commercial settings.

### The basic 2-step process is:

1. Pretreat with traffic lane cleaner. For best results, use Fission Traffic Lane Cleaner.
2. Extract using **Formula 90**

### ITEMS NEEDED

*Note: be sure all equipment operates properly before arriving at the customer's location*

- **Cleaning products:** **Formula 90**, ChemSpec traffic lane cleaners such as Fission, Express Lane 2.0, Express Lane TLC, EnzAll, Traffic Lane cleaner, etc.
- **Optional products:** acidic rinse, defoamer, soil retardant, Energizer
- **Personal Protective Equipment (PPE)** as specified in the Safety Data Sheet (SDS)
- **Supplies:** booties, carpet groomer, adequate supply of clean cloths and a plastic bag for the storage of soiled cloths, measuring cup, wet floor signs, corner guards, traffic lane protectors and furniture leg protectors as needed, empty 5 gallon pail to prepare stock solution
- **Equipment:** air movers (the Dri-Eaz Studebaker AirPath is particularly useful in this application), vacuum cleaner (preferably a two motor upright), pressure injection or electric or pump up dispensers as desired for the job, either truck mount or portable extraction equipment as desired for the job

### PREPARATION OF SOLUTIONS

#### DIRECTIONS FOR TRUCKMOUNT USE:

- **Concentrated Truckmount Stock Solution:** Mix 32 ounces (946 mL) per 5 gallons (18.9 L) of water. Set meter to 2–3 gallons (7.6–11.4 L) per hour.
- **Truckmount RTU (100 gallons):** Mix 20 ounces (590 mL) per 100 gallons (378.5 L)

**DIRECTIONS FOR PORTABLE USE:** Mix 1 ounces (30 mL) to 5 gallons (18.9 L).

**For use with wool rugs:** the pH of the above ready to use solutions is too high for safe use on wool fibers. The Wool Bureau has determined, however, that the following dilutions are compatible with wool:

- **Concentrated Truckmount Stock Solution:** Mix 32 ounces (946 mL) per 5 gallons (18.9 L). Set meter to 1 gallons (3.8 L) per hour.
- **Truckmount RTU (100 gal):** Mix 14 ounces (414 mL) per 100 gallons (378.5 L)
- **Portable:** Mix  $\frac{3}{4}$  ounces (22 mL) to 5 gallons (18.9 L)

### Tech tips:

- When cleaning carpets that have certain stains or need brightening, **Energizer** can be used as an additive. Follow the label directions for that product. Note that Energizer is NOT compatible with wool rugs.
- Be sure to replace the cover or cap on the container after dispensing the product. This protects the product from moisture and contamination.
- Add the concentrate to the water rather than water to the concentrate; this will reduce foam inside the container.

**PRETESTING:** Check compatibility of product with the carpet prior to use.

### INSPECTION

Inspect the customer's carpet before doing any work. Note any of the following on your inspection report and discuss with the customer:

- Air flow and drying problems within the building
- Objects that might be damaged if in contact with wet flooring such as floor length window treatments, furniture legs or skirts. Be sure to protect these items.
- Access to the work area: be sure you have room to move equipment in and out without causing damage to walls and objects in the room.
- Check the area for fragile objects. Be sure these items are removed to a safe location per customer instructions.
- Inspect and make a note of carpet for any tears, bunching, burns or other damage, excessive wear, heavy staining or unusual odors. Review any issues with the customer before proceeding.

### PROCEDURE

Read these steps before using the product.

- Post wet floor signs if necessary.
- If available, use a pile lifter to pilate the carpet. This prepares the carpet for efficient soil removal.
- Pre-vacuum the carpet to remove as much dry soil as possible. This step will make the overall extraction process far more efficient and will reduce the chance of wicking.
- Prespray carpet with the traffic lane cleaner; be sure to follow label directions. Allow a 10 to 15 minute dwell time but do not allow the solution to dry on the carpet.
- Begin the extraction process using **Formula 90** ready to use solution. Be sure that the water supply is hot and be sure to use alternate wet and dry strokes in order to remove as much water as possible. If foam starts to form in the waste water stream, put foam suppressant into the vacuum line. Do NOT add foam suppressant to any detergent or rinse solution.
- Inspect the work area for possible overspray, soil wicking, or odor.
- It is at this stage of the process that soil retardant can be applied to the carpet.
- Establish good drying conditions. Depending on the size and layout of the building, it is useful to install air movers to begin the drying process as each room is completed. In some cases, this will allow you to show the customer a completely dry and clean section of carpet before departing.
- Final inspection: Be sure that no supplies or equipment are left in the work area, that the customer's items are returned to the correct location, and that any water sensitive items such as table legs, furniture skirts or windows treatments are protected from contact with the wet carpet.

### TO CHECK AFTER COMPLETING CARPET CLEANING

- Be sure to check for any overspray of detergent or water. Remove these spills promptly.
- Dispose of waste water properly. Do not dispose anywhere but into a sanitary water treatment system or licensed waste treatment facility.
- Rinse equipment to remove detergent residues. These residues can interfere with valves or spray jets.
- Establish adequate airflow either through the use of air movers or open windows or doors. Instruct the customer on the importance of maintaining airflow until the carpet is fully dry.

### SAFETY CONSIDERATIONS

- Keep children and pets away from your work area, from cleaning products and from your equipment.
- Slip hazards can occur when stepping from wet carpet onto smooth, hard surface floors such as vinyl or ceramic. Place wet floor signs in the work area as needed.
- If using a truckmount-style extractor, remember that water supply lines and fittings will get very hot. This heat can damage lawns and some types of carpeting. The heat can also burn the skin.
- Read the Safety Data Sheets (SDSs) for all products before using them. You can obtain the SDSs from your distributor or from [LegendBrandsCleaning.com](http://LegendBrandsCleaning.com)
- Use the personal protective equipment specified in the SDS.

**Notes:**

- Recommended for use on water cleanable carpeting
- Not recommended for upholstery

<b>TECHNICAL DATA</b>	
Reorder no.	LF904G – case of 4 by 1 gallon (3.8 L) LF905G – 5 gallon (18.9 L)
Color	Blue
Odor	Herbal
Appearance	Transparent liquid
pH of ready-to-use	Less than 10 to 10.3 depending on concentration
Surfactant type	Nonionic/ anionic blend
Contains Phosphate?	No
Volatile Organic Content (VOC)	trace