

Cleaning and disinfection (C&D) using Farm Foam and Synergize

An effective C&D is important for all types of poultry production systems. Pathogenic viruses and bacteria contribute to mortality, low weights, condemnations and poor feed conversions; washing reduces flock exposure to these pathogens. Some viruses only require 0.000001 grams of manure to start an outbreak. If there is more than one barn on the property, an 'all-in all-out' system works best, and this also applies to cleaning and disinfection – wash all barns within the same downtime period if possible. A veterinary diagnosis is important in establishing which virus and/or bacteria are involved and if a thorough C&D is necessary.

Steps to Cleaning:

Step 1: Barn Preparation

- After removing the litter, blow out dust, debris, and loose manure from all surfaces
- Ensure fans and equipment are unplugged during washing
- Wear appropriate PPE for handling chemicals:
 - Gloves (chemical-resistant), goggles or face shield, chemical-resistant clothing or overalls, boots, respirator (if necessary, depending on product and ventilation)

Step 2: Cleaning with Farm Foam

Dilute Farm Foam:

- Prepare Farm Foam according to the manufacturer's instructions, typically around 1-2% dilution (e.g., 10-20 mL per liter of water) based on the level of soiling
- Foam Applicator: Use a foaming applicator or pressure washer with a foaming nozzle to apply the solution
- This product is corrosive to skin, please wear the appropriate PPE

Apply Foam:

- Apply foam with hot water from bottom to top and from front to back to ensure complete coverage, also please include the floor during cleaning and disinfecting

- Ensure that foam is applied to all surfaces, including corners, joints, and crevices where organic matter may accumulate

Contact Time:

- Allow the foam to sit on surfaces for 10-20 minutes to break down dirt, grease, and organic material
- You may have to apply the detergent in sections, do not let the foam dry out, reapply if necessary, especially in hot conditions

Rinse Thoroughly:

- After the contact time, use a high-pressure washer and hot water to thoroughly rinse all foam and loosened material from the surfaces from top to bottom
- Make sure no residue is left behind on walls, floors, and equipment
- Squeegee excess water out of the barn

Step 3: Disinfection with Synergize

- Apply disinfectant when the barn is damp (about 24 hours after squeegeeing)

Dilute Synergize:

- Dilution: Prepare Synergize according to the manufacturer's instructions; 1:256 (about 0.5 oz per gallon of water)
- Mix the solution in a sprayer or foaming device

Apply Synergize:

- Spray or foam the Synergize solution onto all cleaned surfaces, ensuring even coverage across walls, floors, equipment, and hard-to-reach areas
- Synergize can be applied via a low-pressure sprayer or with a foaming gun attachment
 - Foaming is preferred for large areas like walls, floors, ceilings
 - Low pressure spray is best for cracks and edges

Contact Time:

- Synergize is a no-rinse disinfectant for non-feed and non-drinking water surfaces. Ensure the product dries completely.

Step 4: Drying and Re-entry

Drying:

- Allow the barn to air dry completely before adding bedding material
- Ensure proper ventilation is used to aid drying and air out any residual disinfectant vapors

Re-entry:

- Wait Time: Ensure the area has been disinfected and dried for at least 3 days (preferably 6 days) before bedding

Additional points:

Ensure tractors and equipment used for end of flock manure removal is cleaned and disinfected before use in the next flock setup (Farm Foam and Synergize may also be used). Ensure the manure pad is clean of manure and keep the litter and manure from the last flock as far as possible from the barn.

Please read the label directions to ensure appropriate contact time and concentrations, wear the appropriate PPE and avoid spraying water on electrical outlets

Calculate Pressure Washer Injection Rate

Prepare a stock solution of water with a known volume (ex. 0.5 litres), operate the pressure washer and collect the output (ex. 25litres). Measure the stock solution used and output. Calculate injection ratio = stock solution used/total output (ex. $0.5/25 = 1/50$ or 2%).