

CLEAN

Begin by removing any organic material- this system works best on a visibly cleaned surface that has had biofilm, manure, dust, and other organic substances removed.

DISINFECT

Following cleaning, apply an EPA-registered disinfectant as directed on its label. Allow surfaces to dry completely before applying Armatrex.

PROTECT

Armatrex™ (silane quaternary ammonium salt) is a ready-to-use spray-on antimicrobial solution that imparts durable biostatic protection to treated hard, non-porous surfaces. It creates an invisible barrier that inhibits the growth of odor-causing bacteria, fungi, mold, mildew, and algae. For best results, reapply Armatrex periodically, or sooner if surfaces are subject to heavy use or frequent cleaning. Armatrex can be applied to approved use sites including delivery trucks, waterers, veterinary clinics, quarantine pens, breeder and broiler houses, and other animal and livestock facilities listed on the label. Apply only to clean, dry surfaces and avoid oversaturation. For optimal performance, use following a disinfectant step.

APPLICATION METHODS

There are several different options to apply Armatrex. Electrostatic sprayers and foggers are effective tools for achieving even surface coverage, as permitted by the label. Talk to your Merck Animal Health representative about the opportunity to obtain an electric induction sprayer (handheld, backpack, or cart) through a Customer Sprayer Agreement.

Sprayer	Sq. ft/gallon
Trigger	250
Pump up	900-1400
Fogger	2000-3000
Electrostatic Sprayer	3000-4000

Handheld electric induction sprayer



APPLICATION INSTRUCTIONS

1. PREPARE THE AREA

Remove animals, people, and any exposed food items. Pre-clean visibly dirty surfaces if possible.

2. WEAR PPE AS INSTRUCTED

Wear PPE according to the product label and safety data sheet. Avoid inhaling spray mist.

3. USE ONE PRODUCT AT A TIME

Only fill tank with one chemical at a time. Disinfectant and Armatrex should be applied separately.

4. MAINTAIN 2-4 FT DISTANCE

Stay at least 2 feet from surfaces for even coverage and wraparound effect.

5. AVOID OVERSATURATION

Surfaces should be damp, not dripping. Too much liquid reduces efficacy and wastes product.

6. RESPECT DRY TIMES

Armatrex may take 10-30 minutes to dry. Allow to dry fully before contact.

7. FLUSH SPRAYER AFTER USE & WASH HANDS

Run clean water through the system to prevent nozzle clogging and corrosion.

8. LOG USAGE FOR CONSISTENCY

Maintain a disinfection log: date, location, product used, and operator initials.

BEST PRACTICES

DO	DON'T
Use properly stored and dated product (preferably in an opaque container)	Use expired Armatrex
Apply Armatrex to clean, dry surfaces	Apply Armatrex over wet disinfectant
Spray from a 2-4 ft distance	Spray closer than 1 foot (can cause beading & runoff)
Ensure constant motion while spraying	Pause in one spot (can cause pooling)
Spray in the direction of the air flow, not against it	Spray against air flow (spray goes where the air goes)
Store sprayer dry and upright	Leave product in the tank overnight
Flush with clean water after each use	Leave rinse water in the tank (could cause corrosion)
Apply disinfectant before Armatrex (sequentially)	Mix or apply products wet-on-wet

FEATURES AND BENEFITS

Armatrex can be used as a final bacteriostatic finish to impart fungistatic (mold and mildew), or algistatic activity that provides freshness, reduces surface deterioration, or microbiologically induced corrosion.

An Antimicrobial agent inhibits the growth of odor causing bacteria, fungi, mold, mildew, and algae.

FOR NON-PUBLIC HEALTH ORGANISMS

ARMATREX™

ANTIMICROBIAL†

A Silane Quaternary Ammonium Salt

ACTIVE INGREDIENTS: 3-(Trimethoxysilyl) Propyltrimethyl Octadecyl Ammonium Chloride	1.0%
OTHER INGREDIENTS:.....	99.0%
TOTAL:.....	100.0%

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp.



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KEEP OUT OF REACH OF CHILDREN

Distributed by Intervet Inc
(d/b/a Merck Animal Health)
126 E. Lincoln Ave. Rahway,
NJ 07065

NET CONTENTS: 5 GALLONS (640 FL. OZ.)

Use Armatrex in/on locations and surfaces as listed in the directions for use.

EPA Reg. No. 92057-3-773
EPA Est. No. 103745-GA-1

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product does not protect against human health pathogens or disease-causing organisms.

FOR COMMERCIAL & INDUSTRIAL USE

ARMATREX can be used as a final bacteriostatic finish for the following sample structures, facilities, and locations:

Locations: Veterinary clinics, laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, kennels, animal hospitals, animal breeding facilities, breeding establishments, animal husbandry establishments, grooming establishments, animal housing facilities, zoos, tack shops, pet shops, operating rooms, washing areas, waiting rooms, examination rooms, animal care facilities; livestock, equine and poultry based veterinary facilities; restrooms, shower and bath areas.

Farmhouses, barns, sheds, cattle, swine, sheep, horse barns; calf hutches, feed silos and storage facilities, pens and stalls, swine quarters, livestock farms, brooder houses; calving, hog, cattle and horse operations, livestock pens, exotic animal farming operations; swine waterers, feeders and hauling equipment; dairy farming operations (barns and milk houses); delivery trucks, swine premises including: farrowing barns and areas, nurseries, blocks, creep areas, and chutes; poultry and turkey farms inclusive of: breeder, pullet, and broiler farms; poultry premises (hatcheries) including: egg trucks, egg receiving areas, egg holding areas, tray dumping areas, setter rooms, hatchers, chick holding areas, chick processing areas, chick loading areas, poultry buildings including public spaces, chick vans, food processing and food manufacturing plants; USDA inspected food-processing facilities; federally inspected meat and poultry plants; egg processing plants; meat packing plants; hide and leather processing plants; slaughtering operations; fish processing facilities; commercial fishing processing vessels; grain milling and storage operations, hatchery and farm vehicles, poultry transport vehicles. **Surfaces:** Poultry farm equipment, egg conveyors, hen boxes, egg pads, litter, hatchers, setters, trays, racks, egg flats, chick boxes, egg cases, vans and trash containers, water lines, feed conveyors, carts, sexing tables; automated tray, rack and buggy washers; egg receiving and egg holding areas, conveyor systems and belts; hard non-porous

surfaces, veterinary equipment, case goods, kennel runs, cages, kennel/cage floors, conductive flooring, examination tables, veterinary x-ray tables, loading platforms, animal equipment; farming equipment, harvesting and handling equipment; air filters for furnaces, air-conditioners, air purification devices, recirculating air handling systems, waste receptacles, washing machines. Building materials and components for floors, walls, ceilings and fixtures; insulation, cabinetry, wallboard, wood and wood components; cellulose sheathing, sealed foundations, plumbing fixtures, lighting equipment fixtures, metal structural components, vinyl, stone, roofing materials, brick, cement, concrete, masonry materials (mortar), composite materials, painted surfaces, glass surfaces, aluminum, brass, copper, laminated surfaces, metal, plated steel, stainless steel; glazed porcelain, tile, and ceramic; sealed granite and marble; plastic, sealed limestone, slate, and stone; chrome, Plexiglas®, enameled surfaces, Formica®; water supply lines and tubing; countertops, bathroom and kitchen sinks; shelves, racks, fabrics: natural, synthetic, woven and non-woven; Personal Protective Equipment (PPE).

FOR USE AS AN ANTIMICROBIAL† UNDER EPA REGULATIONS DIRECTIONS PRIOR TO COMMERCIAL & INDUSTRIAL USE

Dry substrates at temperatures from ambient to a maximum of 160°C (320°F) to effect complete condensation of silanol groups and to remove water, solvents, and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply this product every three months (90 days) or when odor, staining, and discoloration due to bacteria, mold, or mildew returns. Test fabric or surface in an inconspicuous area for color fastness or adverse reaction.

For Pump Spray Application: Spray entire area 4 to 6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. When treating coarser substrates, more of this product may be required

due to absorption. A fan may be used to assist in drying.

For Commercial Spray Application Fabric: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction Cleaners, pressure sprayers) apply without dilution and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. When treating coarser substrates, more of this product may be required due to absorption. Spray application is preferred on large surfaces that are easily accessible. The spray equipment chosen should provide a consistent fine (1-300 micron) particle size and uniform spray pattern. Pump up garden type sprayers can be used but care must be taken to maintain maximum pressure by pumping frequently and adjusting the spray nozzle for the finest spray pattern possible. During application achieve complete uniform coverage. Avoid excessive wetting and do not allow the spray to run or pool. Excess moisture should be removed with a clean, dry towel.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Keep from freezing.

Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Featured label for 5 gallon presentation. Also available in 1 gallon, 55 gallon, and 275 gallon presentations.