

# ShockTape Electric Bird Deterrent

## Includes specifications for: ShockTape and ShockTape Accessories

Nixalite offers the ShockTape Electric Bird Deterrent System and all accessories to successfully install the system on a variety of surfaces. The following specification outline is presented in a modular format making it simple to include or exclude any combination of the ShockTape Electric Bird Deterrent System as needed for each project.

List ShockTape Electric Bird Deterrent System specifications in the following locations;

**Master Format 1995 – 10290 – Bird & Pest Control**

**Master Format 2004 – 10 81 00 - Pest Control Devices**

**Master Format 2004 – 10 81 13 – Bird Control Devices**

## PART 1 - GENERAL

### 1.1 - SYSTEM DESCRIPTION:

**ShockTape Electric Bird Deterrent System:** An electrified tape bird deterrent that is installed on a variety of surfaces to repel all types of pest birds. The flexible, UV stabilized ShockTape uses a super strong, high-tech peel-and-stick adhesive to bond tightly to a variety of surfaces. Electrical power comes from either plug-in AC, solar or battery powered line chargers. Birds and animals are not harmed by the discharge and will display a fear behavior of the tape.

- A. **ShockTape Components:** A basic installation includes the ShockTape; a UL® listed Line Charger, Jumper Wire to make charger to wire and wire to tape connections; Aluminum Sleeves to connect the wires and ShockTape together, Wire loops to hold the wires in place.
- B. **ShockTape Accessories:** Accessories include testers for DC pulse current, heavy duty shears for cutting wire and ShockTape, front-crimp style crimper/stripper tool and electric fence warning signs.
- C. **Surface Cleaning System:** surface disinfectants and deodorizers to neutralize potentially hazardous bird or animal waste and prepare surface for installation.

### 1.2 - QUALITY ASSURANCE

- A. Installer must obtain, review and understand ShockTape planning guides and installation instructions.
- B. Installer must be completely familiar with the proper installation procedures for the ShockTape Electric Bird Deterrent System specified.
- C. Installer must be completely familiar with the specified ShockTape components and accessories.

### 1.3 - SUBMITTALS

- A. ShockTape literature including: ShockTape product brochure and ShockTape Installation Instructions.

## 1.4 – STORAGE & HANDLING

- A. Provide storage to keep ShockTape shipping boxes dry, clean and undamaged. Do not stack or place other packaging on the ShockTape shipping boxes.
- B. Keep ShockTape Electric Bird Deterrent System and ShockTape Accessories in original packaging until needed for installation.

## PART 2 - PRODUCTS

### 2.1 – ACCEPTABLE MANUFACTURER

- A. Nixalite of America Inc  
1025 16th Avenue, PO Box 727, Dept. NI, East Moline, Illinois 61244; U.S.A.  
Ph: 800.624.1189 or 309.755.8771 - Fax: 800.624.1196 or 309.755.0077  
E-mail: birdcontrol@nixalite.com or planning@nixalite.com  
Web: www.nixalite.com.
- B. ABC Advanced Bird Control – A division of Nixalite of America Inc.  
PO Box 727, Dept. NI, East Moline, Illinois 61244, U.S.A.  
Ph: 888.212.8682 or 309.755.4708 – Fax: 309.755.1865  
E-mail: info@abcbirdcontrol.com  
Web: www.abcbirdcontrol.com.

### 2.2 – SHOCKTAPE ELECTRIC BIRD DETERRENT SYSTEM

- A. **ShockTape:** Clear acrylic tape with aluminum flat wire and pressure sensitive adhesives with peel off backing.  
  
Item # ST TAPE  
Width: 1-3/4” (4.5 cm)  
Height: 0.06” (0.2 cm)  
Length: 50 foot rolls (15.2 M).
- B. **115VAC Line Chargers:** UL Approved.  
  
Item # ST PLUGIN  
Polyethylene case  
Width: 6” (15.2cm)  
Height: 10” (25.5cm)  
Depth: 3” (7.7cm)  
Energy: 0.66 joules stored – 0.5 joules output  
Range: up to 2,000 feet of ShockTrack (305 M)  
Input voltage: 115 VAC, 60 mhz  
Output voltage: Capacitor discharge, 0.5 joule, 1 second delay between pulses  
Mounting: screws
- C. **Solar Powered Line Chargers:** UL Approved.  
  
Item # ST SOLAR  
Polyethylene case  
Width: 12” (30.4cm)  
Height: 12” (30.4cm)  
Depth: 12” (30.4cm)  
Energy: 0.05 joules stored – 0.05 joules output  
Range: up to 1,000 feet (610 M)

Input voltage: 6VDC, 4.5 amp rechargeable battery included – 2 year lifespan  
Output voltage: Capacitor discharge, 0.05 joule, 1 second delay between pulses  
Mounting: screws, nails, etc

**D. Battery Powered Line Chargers:** UL Approved.

Item # ST BATTERY

Polyethylene case

Width: 6" (15.2cm)

Height: 12" (30.4cm)

Depth: 3" (7.7cm)

Energy: 0.28 joules stored – 0.25 joules output

Range: up to 2,000 feet (610 M)

Input voltage: **3 options**; 4-D cell batteries, 6 or 12 volt DC external batteries

Output voltage: Capacitor discharge, 0.25 joules, 1 second delay between pulses

Mounting: screws, nails, etc

**E. Jumper Wire:**

Item # ST WIRE

White/Tan PVC insulating jacket

Side-by-side, 20 AWG solid core aluminum wire

Rating: 20 KV

Length: 100 foot (30.4M) spool

Mounting: Black poly mounting loops (ST LOOPS)

**F. Aluminum Sleeves:**

Item # ST SLEEVES

Pure aluminum sleeves used to make all wire and tape connections; Jumper Wire to Jumper Wire, Jumper Wire to ShockTape and ShockTape to ShockTape.

Available in 50 count vials or 100 count bags.

**G. Wire Loops:**

Item # ST LOOPS

Poly based fastening loops hold the Jumper Wire close to the installation surface.

Allow for logical and orderly routing of Jumper Wires.

¼" wire capacity, 3/16" screw holes.

Available in 100 count bags.

**H. Additional Accessories:**

Item # ST CRIMPER – front crimp design required for ShockTape installation.

Item # ST SCISSORS – HD EMT shears cut ShockTape, Jumper Wire and others.

Item # ST DIGITAL – digital high voltage tester confirms proper installation

Item # ST SIGNS –yellow warning signs to keep people away from ShockTape

More accessories available for ShockTape Electric Bird Deterrent System.

**2.3 – SHOCKTAPE MOUNTING/FASTENING**

- A. Use ShockTape peel & stick adhesive to fasten to: metal, paint, enamel, mineral (aggregate) surface shingles, glass, terra cotta clay tile, plastics, composites, sealed concrete and wood. Follow all surface preparation steps.
- B. Use urethane sealant/adhesive to fasten to: rubber, neoprene, EPDM, petroleum substrates, tar paper, unsealed concrete, unsealed or unpainted wood, rough surfaces. Follow surface preparation steps on sealant/adhesive container

## 2.4 – SURFACE CLEANING SYSTEM

- A. **Steri-Fab:** surface disinfectant and bactericide to neutralize bird waste. Multipurpose sanitizing spray used to quickly kill disease causing bacteria, parasites, fungi, insects, etc. Non-residual product, Steri-Fab is inert after it dries. Do not use with Microcide-SQ on the same surface.
- B. **Microcide-SQ:** broad spectrum disinfectant, cleaner and deodorizer used to sanitize hard surfaces as well as fabrics and clothing. Use to kill a wide spectrum of organisms and disease causing bacteria. Do not use with Steri-Fab on the same surface.
- C. **Microsan:** anti-bacterial personal protection products to help prevent disease transmittal before, during and after working on and around surfaces contaminated with bird and animal wastes. Use to compliment personal protection equipment standards (PPE).
- D. **All Marine Bird Dropping Remover:** non-toxic, biodegradable bird dropping remover that is safe and effective for use in both marine and land applications. Instantly dissolves bird droppings both wet and dry, in or out of the marine environment.
- E. **Stain & Odor Remover:** a non-toxic, biodegradable stain and odor remover that uses naturally occurring active enzymes to remove the worst types of stains and odors. Safe and effective for both wet and dry environments.

## PART 3 - EXECUTION

### 3.1 - INSPECTION

- A. Visually inspect all installation surfaces. Make sure all surfaces are clean, dry and free from debris or other conditions that could impede the workflow of this section.
- B. Notify architect of detrimental conditions. Do not proceed until these conditions have been corrected.

### 3.2 - PREPARATION

- A. **Field Measurements:** Verify dimensions of each installation surface. Use ShockTape installation instructions to make sure you have sufficient quantity of ShockTape to properly protect the specified surfaces.
- B. Make sure all installation surface finishing requirements have been accomplished before installing ShockTape Electric Bird Deterrent System. DO NOT apply any surface coating or treatment (paint, sealer, etc.) over the installed ShockTape system.
- C. Remove or repair objects that may damage the ShockTape system after installation such as tree branches and loose items on the building.
- D. **Surfaces must be 45°F (7°C) minimum at instance of contact; dust free and dry.** Adhesion to substrates should be thoroughly evaluated under actual conditions. Unsealed concrete and wood surfaces must be unified with clear shellac, paint or other appropriate coating or sealer.

### **3.3 – SURFACE CLEANING**

- A. All surfaces to be clean, dry and free of obstructions before bird control is installed.
- B. IF BIRD WASTE IS PRESENT:  
Treat, neutralize and safely remove all bird waste from installation surfaces. Installer must follow all city, state and federal regulations regarding the proper removal and disposal of bird droppings.
- C. Use Nixalite’s surface cleaning products to neutralize any bird droppings, nests and related waste materials that may be present. Allow all surfaces to air dry completely, and then reapply to sanitize and deodorize the surface before proceeding. Strictly follow treatment instructions provided with Nixalite’s surface cleaning products.
- D. Use Nixalite anti-bacterial personal protection products to help prevent disease transmittal when working around surfaces contaminated with bird droppings.

### **3.4 - INSTALLATION**

- A. Protect all surfaces. Install the ShockTape system as recommended by the installation instructions that are supplied by the manufacturer. ShockTape is a landing deterrent, it is not a barrier.
- B. ShockTape to follow the shapes and contours of the architecture and lay in a straight line. The center line of the tape must be aligned to the top center line of pipes and sharp angled objects. Uneven installation may give the birds landing opportunities and create an unsightly appearance.
- C. ShockTape must fully extend into each corner to prevent potential landing areas.
- D. Defining bird ‘pressures’:  
Low Pressure – Just a few birds, occasional and brief landings, intermittent bird presence. “Nice place to visit, but I wouldn’t want to live here.”  
High Pressure – Many birds that land frequently and stay most or all of the day. Birds maintain a constant presence. “My nest was here! I was born here! I will return to this place year after year!”
- E. ShockTape spacing for LARGE BIRDS ;  
ALWAYS measure spacing from the center of the ShockTape rows.  
Low Pressure – Surfaces up to 8” wide, install one row of ShockTape 2” (5.1cm) away from the outside edge. For 8” and wider, install additional rows of ShockTape.  
High Pressure – Surfaces up to 7” wide install one row of ShockTape 2” (5.1cm) away from the outside edge. For 7” and wider, install additional rows of ShockTape.
- F. ShockTape spacing for SMALL BIRDS ;  
ALWAYS measure spacing from the center of the ShockTape rows.  
Up to 6” wide, install one row of ShockTape 2” (5.1cm) away from the outside edge.  
For 6” and wider, install additional rows of ShockTape.

### **3.5 – INSPECTION / ADJUSTMENTS / CLEANING**

- A. Remove debris and waste materials from project site.
- B. Visually inspect ShockTape for poor adhesion due to inadequate surface preparation. Insure all Jumper Wire connections are dressed properly and secured. Remove all flat wire and jumper wire trimmings.

- C. Use electric fence voltage tester to insure that voltages are present at several locations throughout the installation.
- D. Make any repairs or adjustments to ensure long term control. Set up visual inspection schedule with property owner/manager

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