

### SAFERETURNS

Return to Work // School // Worship // Play











### SAFERETURNS

Entry Screening Solutions Disinfection and Surface Protection

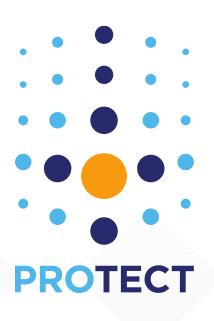


Spacing, Barriers and Masking

Policy, Documentation, and Communication







### Introducing AEGIS Microbe Shield Technology

Colin Dickey, President of Protect Technologies, Inc.





#### **Table of Contents**

- 1. Introductions
- 2. AEGIS Microbe Shield
- 3. Facts and Benefits
- 4. Questions



### **Protecting from Algae**





# 24/7

365

Surface Protection



### Safe

### Durable

# Effective

## Let's Clear the Surface acgis®



#### **Durable Antimicrobial**

- Governed By EPA
- **Protect Surfaces**
- Long Lasting
- Effective against Microbes
  - Bacteria, Mold, Mildew, Fungi, Algae
- Cannot Legally Make Viral **Claims**

#### **Disinfectant**

- Governed by EPA (FDA)
- Protect People
- Short Term
- Effective Against Bacteria And Viruses

 Cannot Legally Make Durable **Claims** 





# **Conventional Disinfectants**

- Disinfectants limited once dry
- Correct Chemical, Concentration,
  Dwell Time, Application Technique
  - Time, Costs, Practicality
  - Effective and Acute
  - No ongoing protection
- Microbes begin growing on surfaces once touched
- Bio Film and microbial hosts

### Original and Authentic

AEGIS Microbe Shield® originates to 1970's at Dow Corning Labs – licensed to a licensee, eventually purchased by licensee, and then purchased by Microban® International. With a half a century of continuity, studies and data, AEGIS is the most Globally registered & Globally Trusted antimicrobial in the market.

EPA	Health Canada	Europe
• 64881-1	• 15133	• BPR – EC528/2012 –
• 64881-7		Compliant REACH
		• PT· 7 9



# Long molecular chain (18 CH<sub>3</sub>

# What is aegis made of?

#### 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride

- The active ingredient in AEGIS® forms a colorless, odorless, protective coating that is positively charged which molecularly bonds with products upon application forming a durable antimicrobial surface protectant.
- Organo Silane Quaternary Ammonium Salt (Compound) with a Covalent Bound

Silicon (SI), Oxygen (O), Nitrogen (N), and Carbon (C)

# What does aegis do?



AEGIS® inhibits the growth of microbes on surfaces by utilizing a charge disruption mode of action.

Bacteria is attracted to the coating's positive charge, and upon coming into contact with the treated surface, they quickly die.

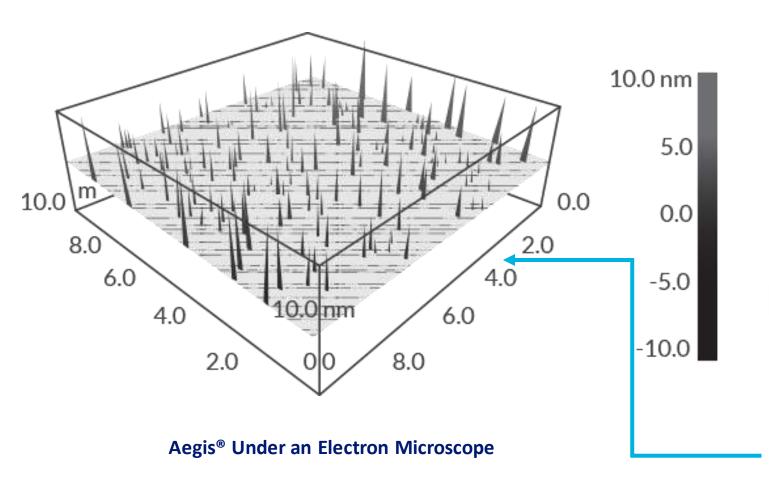
(Process of Lysis)

- Durable Antimicrobial Surface and Material
  Protectant
- Not a Disinfectant

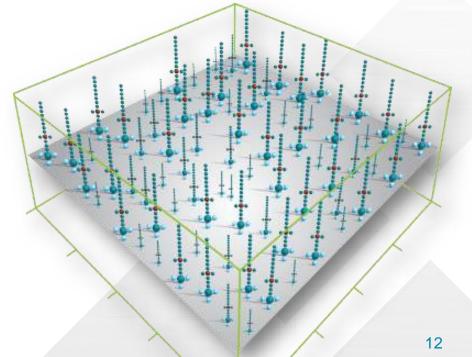




# Technology behind aegis®

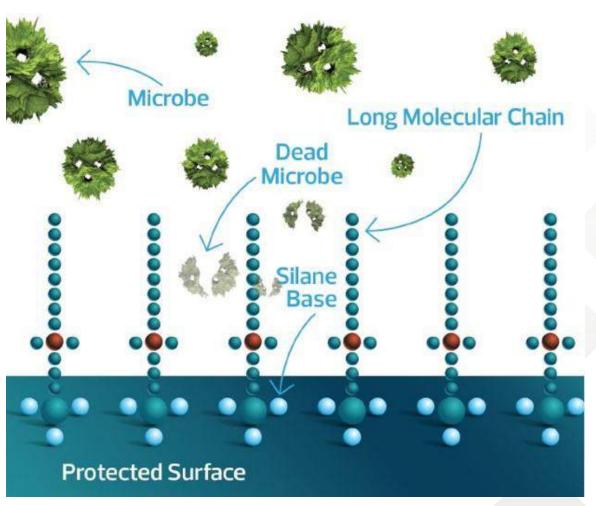


- Bonding antimicrobial
- Modifies surface → Spikes
  Effective 24/7





# How aegis works



Process → Lysis

Positively charged polymer ruptures then electrocutes microbes

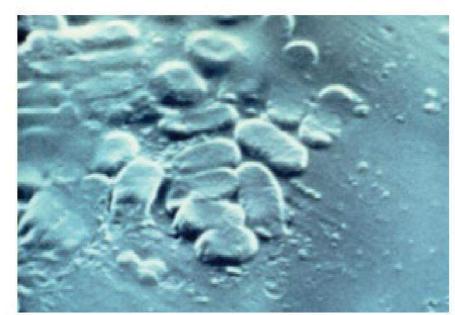
#### **AEGIS** Treatment is:

- Clear
- Colorless
- Odorless

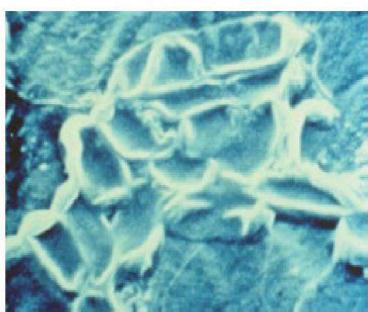


# How aegis works

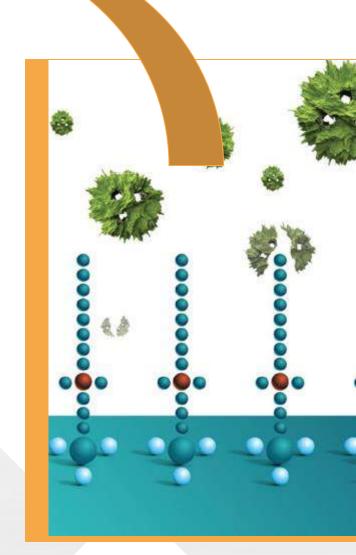
**Process of** → **Lysis** 



Normal E. coli cells on untreated surface.

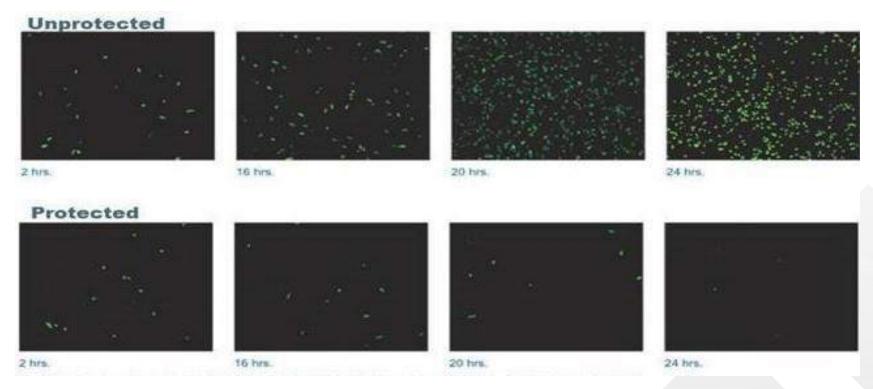


E. coli cells ruptured after contact with treated surface.



# Cleaner between Cleaning aegis®

#### 99% less microbes between effective cleaning practices

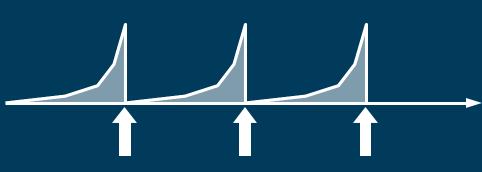




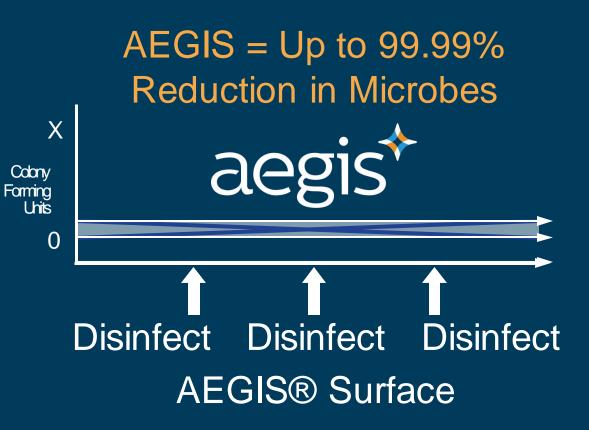
# Cleaner between Cleaning acsis

99% less microbes between effective cleaning practices

#### Typical Disinfection Protocol



Disinfect Disinfect Disinfect Regular Surface





### The Added Layer

- Durable and Effective
- Treatments effective for up to 1 Year\*
  - 6 month touch up on extremely hightouch locations
- Surfaces are easier to clean by AEGIS® inhibiting the ability for microbes to form Bio-Film
- Improves feeling of cleanlinesssmoother surfaces



# aegis® Real World Testing













#### **Test Protocol – Confirmation of Effect**



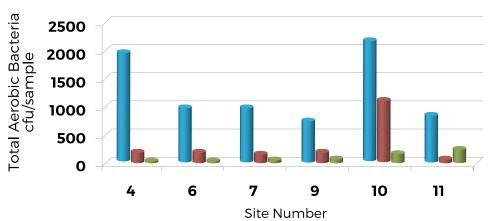
- Hygiena ATP meter
  - professional grade instrument used to measure how clean surfaces are.
  - Ranges can be set, but generally speaking "0" is sterile, anything over "30" is a fail.





### **Proven Durability**





 Street Car Transit Vehicle Follow-up Study Aegis Completed by Bombardier 2009-2010

- 96.4% Effectiveness after 10 months
  - Baseline 05/27/09
  - Post Treatment 06/09/09
  - 9 Months Post Treatment 03/26/10



Post Treatment: 03/26/10

### Stamp of Approval



PROTECT Surface Protection

Program™ decal and certificate of completion. Custom designs can be arranged for your company ensuring the correct messaging, company colors and branding.

Utilizing the AEGIS® Logo and Microban® Logo, known worldwide for being in products & locations such as:

Nike,

GO Transit,

Adidas,

SEPTA Transit,

Under Armor.

Sunwing Travel,

CN Towner,

New York Transit

• TTC,



### **Everyone Know**





# Cleaning After aegis®®

#### **Safe Products:**

- Orange or green cleaner
- Bleach mixed at manufacture specs of 1:10
- Hydrogen Peroxide based cleaners
- Glass Cleaner Windex
- Regular detergents
- Ozone, UVL , Oxidizers

#### **Safe Techniques:**

- Steam Cleaning
- Scrubbing
- Cleaning

#### Not Safe:

- Items with pH 11.5+
- Industrial acids
- Surface removers
- Abrasives



# Want to know more about AEGIS Microbe Shield Technology?

### Let's talk.

info@sumnerone.com

800.325.0985

www.SumnerOne.com

