



LONG LASTING ANTIMICROBIAL SURFACE PROTECTION

## AEGIS® OVERVIEW

*A Quick Information Guide about AEGIS®*

Safe

Durable

Effective

# Bactraban

PROTECT YOUR BUSINESS FROM INVASIVE MICROBES

SOLE DISTRIBUTOR OF AEGIS® IN SOUTH AFRICA

[www.bactraban.com](http://www.bactraban.com)



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## 1 Overview

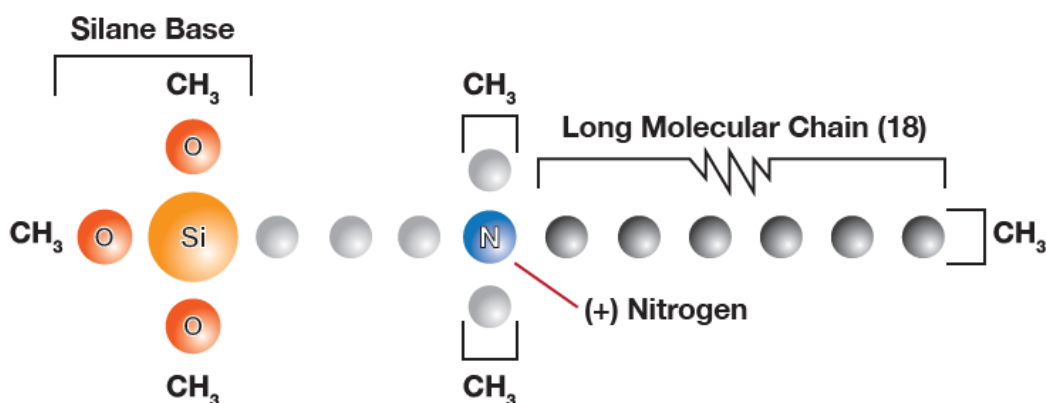
For over 45 years, AEGIS® (AEM 5700) has been the world's most widely used enduring antimicrobial surface protectant and coating. AEGIS® products are proven safe for their intended end use, durability, and efficacious.

Backed by more than 45 years of testing, AEGIS® technology has a long history of safe use. AEGIS Microbe Shield® is a durable and effective way to control a wide range of microbes, including **bacteria**, **mould**, **mildew**, **fungi**, **yeast** and **algae** on surfaces found in transportation, commercial, and other public settings.

## 2 Technology Overview

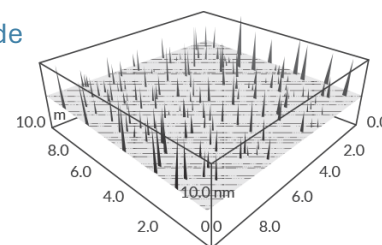
AEGIS® forms a protective coating that can molecularly bond with surfaces upon application. Microbes are attracted to the coating's positive charge. When applied to surfaces, AEGIS® forms a colourless, odourless, positively charged barrier that attracts, then electrocutes and disrupts their negatively charged cell membranes. AEGIS® contributes to enduring clean surfaces by utilising a charge disruption mode of action.

AEGIS® has a long history of delivering durable, long-lasting antimicrobial efficacy to protect treated surfaces.



AEGIS® Active Ingredient: **3-trimethoxysilyl propyldimethyloctadecyl ammonium chloride**

During the application process stable bonds between OH- sites on the AEM 5700 molecule and the positive charge on the nitrogen atoms (N+) form. The result of this chemical process is the creation of a large co-polymer chemically bonding AEGIS® to the target substrate.



### Positively Charged Nitrogen

The positively charged nitrogen atom attracts the negatively charged cell walls of microbes.

### Silane Base

Enables the antimicrobial to anchor securely onto the substrate providing long-lasting antimicrobial product protection.

### Long Molecular Chain

The long molecular chain or “spike” is the part that comes into contact and disrupts the cell membranes.

## 3 Why AEGIS® is Different

AEGIS® is not a disinfectant or a cleaner, it is an antimicrobial protectant that is designed to support, not replace, your existing cleaning and disinfection protocols. Compared to traditional products AEGIS® has many benefits:

- ✦ AEGIS® does not leave the surface when applied. Conventional products penetrate living cells and kill by way of poisoning the organism or disrupting a vital life process - they are designed to act and dissipate quickly.
- ✦ AEGIS® creates an inhospitable environment for microbes to live on and will not create resistant organisms.
- ✦ AEGIS® can be expected to remain on a surface from 90 days to up to a year. The expertise of the applicator, type of surface, wear and tear associated with the surface, and type of cleaning chemicals can all decrease the expected durability of AEGIS®.
- ✦ AEGIS® has been tested to be effective on many surfaces including glass, fabric, metal, and plastic.
- ✦ AEGIS® is the only globally registered antimicrobial and is used by name-brand manufacturers.

## 4 Approvals

AEGIS® is manufactured by AEGIS Environmental Management Inc. and owned by Microban. AEGIS® and AEGIS Microbe Shield® are trademarks of Microban International. PROTECT Technologies is the global master distributor of AEGIS Microbe Shield®. Bactraban is the master distributor in South Africa. The biocidal active components of AEGIS® are notified with the [EU Biocidal Products Regulation \(BPR\)](#) and registered with the [US Environmental Protection Agency \(EPA\)](#) and [Health Canada Pest Management Regulatory Agency \(PMRA\)](#).

- ✦ US Environmental Protection Agency: 64881-1 & 64881-7
- ✦ Health Canada: PCP# 15133
- ✦ European Union: AEGIS® is listed as PT-7 and PT-9 with the [Registration, Evaluation, Authorization and Restriction of Chemicals \(REACH\)](#) and as PT-2 in the United Kingdom.

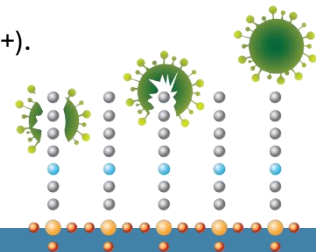


## 5 AEGIS® Care and Attributes

How to care for AEGIS®:

- ✦ AEGIS® bonds instantly and dries in 3 to 5 minutes on high-touch and high-traffic surfaces, and 2 to 24 hours on treated fabrics such as carpets.
- ✦ AEGIS® can be weakened or deactivated over time by highly caustic materials (pH 11+).
- ✦ Clean AEGIS® treated surfaces with soap and water or non-caustic disinfectants.
- ✦ AEGIS® can be removed by abrasion.

Some attributes of AEGIS Microbe Shield® include:



Non-toxic

No odour

No Volatile Organic Compounds

Non-leaching

No colour

Not triclosan-based

Non-transferring

No off-gassing

Cannot be felt by touch

Non-flammable

No heavy metals

Has hydrophobic qualities