

Polymeric is proud to announce the development of MicroShield, a reliable UV Curable, Anti-microbial, protective coating for a wide range of applications. The MicroShield coating typically used in architectural, medical and industrial applications can now be easily implemented into unlimited new markets and applications. MicroShield is especially well suited for labels and decals used in the food packaging, medical and pharmaceutical market. This coating exhibits excellent adhesion to an extremely broad range of materials and surfaces that require antibacterial or anti-graffiti type performance. MicroShield has passed JIS Z 2801, AATCC Method 147 (inhibition) and AATCC Method 100 (kill). Tests demonstrated both inhibition and kill with no growth or pathogen survival where the coating came in contact with the micro-organisms.

While MicroShield incorporates TSCA and CONEG compliant, and FDA and EPA registered raw materials, and has successfully passed the above test methods, MicroShield is not yet EPA registered. And while the test data is conclusive, Polymeric makes no claims that MicroShield protects against illness.

*MicroShield test results were compiled by an independent microbiology laboratory that is ISO/IES 17025 accredited for these tests by the American Association for Laboratory Accreditation (A2LA).*

### Applications & Properties

- Ideal for bus stops, train stations and airport terminal applications
- Excellent for roll labels and decals for food packaging, medical and pharmaceutical applications
- Superb protective properties for applications in the commercial wall covering and wall paper market
- Superior resistance against Aerosol or Enamel spray paints
- Non-blocking, low tack finish for easy handling and aesthetics
- Ultra resistant Anti-bacterial properties make it an ideal coating for hotels, hospitals, clinics, airports, subways and restaurants
- Available in matte, satin and gloss
- Exhibits excellent resistance to a variety of solvents
- Excellent stain resistant
- Coating is water white and odorless when dry, with no residuals

### Mixing

MicroShield is supplied at production ready viscosity and can be used directly from the container. Mix thoroughly before use.

### Drying Parameters

Can be cured @ 150-200 mJ. Curing parameters will vary based on film deposit and environmental conditions.

### Shelf Life

One (1) year from date of manufacture

- Methicillin-resistant Staphylococcus aureus (MRSA)
- Vancomycin-resistant Enterococcus faecalis or faecum (VRE)
- Klebsiella pneumoniae (pneumonia)
- Acinetobacter baumannii
- CoNS infection
- Candida spp.
- Escherichia coli (E. coli)
- Enterococcus spp.
- Pseudomonas aeruginosa
- Staphylococcus aureus
- \*\*Clostridium difficile

\*\* Clostridium difficile infections (CDI) account for 20-30 percent of all hospital acquired infections (HAIs) transmitted through the person-to-person fecal-oral route.

## **Storage**

Care should be taken to store ink in tightly closed containers located in a cool (60-80°F/15-27°C) dark place. With suitable conditions, unopened ink is expected to have a shelf life of approximately twelve (12) months from date of manufacture, six (6) months for white inks.

## **Note:**

*Processing guidelines will vary depending on the method of application. Modification of this product can only be done by and only under the recommendation of Polymeric. Polymeric discourages the use of this product outside of its intended usage. In these circumstances Polymeric can offer unlimited resources and research in its development.*

## **Precautions**

Read the safety data sheet prior to processing. It contains instructions for precautions to be taken when handling inks. If ink comes in contact with skin wipe off with a clean, dry cloth (do not use solvent). Wash and rinse the affected areas with soap and water.

## **A. Warranty Liability Limited to Purchase and Installation Costs**

Notwithstanding anything provided herein or any other written material to the contrary, Polymeric only warrants the purchase price and costs of installation. Polymeric US shall have no liability or obligation to any user, buyer, purchaser, distributor or other person or entity for any special, direct, indirect, incidental or consequential damages, however caused, including without limitation, personal liability, loss of business, loss of profit, or other damage, whether or not buyer shall have informed Polymeric US of the possibility or likelihood of any such damages.

## **B. Limitation of Implied Warranty and Fitness for a Particular Purpose**

Polymeric's warranty is given in lieu of all other warranties, express or implied, including but not limited to an implied warranty of fitness for a particular purpose, an implied warranty of merchantability, and any other implied warranty arising out of a course of dealing, performance, customer usage or trade.



MicroShield

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