MEGANITE®

TECHNICAL BULLETINS

MEGANITE® ACRYMED FAQ

DOCUMENT PURPOSE

This document provides an overview on Meganite® AcryMed – antimicrobial solid surface.

WHAT IS MEGANITE® ACRYMED?

Meganite® AcryMed is a durable and hygienic surfacing material with an advanced antimicrobial technology. The antimicrobial solid surface protects itself against stain and odor causing bacteria and other microbials.

WHAT IS THE CORRECT FEATURE OF MEGAMITE® ACRYMED? ANTIMICROBIAL OR ANTIBACTERIAL?

Meganite® AcryMed is an enhanced antimicrobial solid surface which effectively against both bacteria and fungi.

WHAT IS THE ANTIMICROBIAL ADDITIVE AND HOW SAFE IS IT?

Meganite® AcryMed uses alloy base antimicrobial additive, developed specially for surfacing markets. The additive is integrated into the raw materials during production.

HAS MEGANITE® ACRYMED BEEN TESTED FOR ANTIMICROBIAL EFFECTIVENESS?

Meganite® AcryMed has been tested at third party microbiology labs. Its effectiveness against representative bacteria is verified per ISO 22196 and Japanese Standard JIS Z2801. Only 4 representative bacteria are listed in test report. Results may vary when tested on different organisms or bacteria. AcryMed technology protects the product itself against stain and odor-causing bacteria. AcryMed does not protect users or others from disease-causing bacteria.

WHY DOES MRSA (Methicillin-resistant Staphylococcus aureus) DECREASE ON BOTH REGULAR SOLID SURFACE AND MEGANITE® ACRYMED IN THE TEST REPORT?

There is antimicrobial effectiveness against Staphylococcus aureus because of inorganic compound in regular solid surface. With extra alloy base antimicrobial additive, the effectiveness of Meganite® AcryMed upgrades to 99.9%. Antibiotic resistance of MRSA comes from mutation which leads to less resistance to inorganic compound, so both regular solid surface and Meganite® AcryMed has antimicrobial effectiveness against MRSA.

IS MEGANITE® ACRYMED REGISTERED WITH EPA?

Meganite® AcryMed is exemption from EPA registration under 40 CFR 152.25(a) (commonly known as "treated article exemption"). For further details please visit the website to see completed Electronic Code of Federal Regulations.

DOES THE FINAL PRODUCTS MADE FROM MEGANITE® ACRYMED KILL 99.9999% OF BACTEIRA?

The EPA reserves those types of kill claims for sanitizers, disinfectants, and sterilant. Per EPA regulation, article such as solid surfaces can contain antibacterial ingredient, but only for the protection of product itself. Making 99.9999% or etc. claims implies a public health claim, extending far beyond what is allowed under the treated article exemption. Standardized cleaning and disinfection are still the best practice to keep healthy indoor environments.

WHY DOESN'T MEGANITE® ACRYMED EXTEND SUCH PROTECTION TO USER?

Extending the claims to public health organisms (E.coli, S. aureus, etc.) would require EPA registration. Claiming to protect a persons' health (i.e. reducing the spread of a disease) would make the sheet a drug or device, which is in the realm of disinfectants and sanitizers (EPA) and drugs (FDA). Meganite® AcryMed protects the product itself. Meganite® AcryMed antimicrobial technology does not protect people. Regular cleaning and disinfection are still the best practice for keeping people healthy. Meganite® AcryMed provides a durable surface that is resistant to stain and odor bacterial growth and easy to clean and disinfect, to keep surfaces cleaner between cleanings.

WHAT ARE COMMON APPLICATIONS?

Healthcare:

- Nurse stations
- Patient rooms
- Reception areas
- Operating rooms
- Waiting areas
- Doctor's offices
- Outpatient clinics
- Dental Facilities
- Interior wall protection

Food services:

- Service counters
- Preparation areas
- Condiment area
- Dining table
- Restrooms

Public facilities:

- Schools and preschools
- Hotel
- Airports
- Yacht and Cruise interior
- Train stations
- Shopping mall

WHAT ARE THE FEATURES AND BENEFITS OF MEGANITE® ACRYMED?

- Effective in protecting product surface from bacterial degradation, tested by JIS Z 2801 and ISO 22196
- Inhibits the ability of product-damaging microbes from growing and spreading on the surface
- Environmentally stabilize
- Chemical-resistant and easy to clean

- Will not warp, rot, splinter, or delaminate
- Easy to fabrication, works like wood
- Thermoformable
- Non-porous surface
- Seamless joint
- Stain resistance, easy to repaired and maintained
- May qualifies for LEED points

WHAT IS RECOMMENDED FABRICATION FINISH?

The sheet can be polished by certified fabricator. Matte finish Is recommended.

DOES MEGANITE® ACRYMED NEED SPECIAL ADHESIVE WHEN JOINING SEAMS?

Meganite® AcryMed works with standard solid surface adhesive.

CAN MEGANITE® ACRYMED CUSTOM SHEET SIZE AND COLOR MATCH?

Yes. Other dimensions are possible for Meganite® AcryMed series. MOQ for every dimension is about 100 square meter or 1,100 square feet. Please contact your Meganite® representative or email to info@meganite.com for more details.

Available sizes:

Thickness	Available Sizes
6 mm (=1/4 inch)	3050mm x 760mm (=120 inch x 30 inch)
12 mm (= 1/2 inch)	3050mm x 760mm (=120 inch x 30 inch)
	3660mm x 760mm (=144 inch x 30 inch)
18 mm (=3/4 inch)	3050mm x 760mm (=120 inch x 30 inch)

HOW CAN I FABRICATE AND FINISH IT? CAN I USE CNC MACHINE?

Meganite® AcryMed is installed by licensed fabricators who have been trained to work with solid surfaces. The tools for fabrication are standard woodworking tools: table saws, table routers, drills, blades and bits. CNC machining is acceptable.

CAN MEGANITE® ACRYMED ANTIMICROBIAL TECHNOLOGY APPLY TO BOWL/BASIN PRODUCTS?

Yes, the antimicrobial technology could be applied to bowl/basin products. In both thermoforming and casting process. Please check with your local bowl/basin producer for actual design implement.

Meganite® also has AcryMed bowls/basins ready to go which used same advanced antimicrobial technology. Please contact your Meganite® representative or email to info@meganite.com for more details.

CAN MEGANITE® ACRYMED BE THERMOFORMED? WHAT IS THE THERMOFROMABILITY COMPARING WITH REGULAR SOLID SURFACE?

Meganite® AcryMed is an enhanced antimicrobial solid surface. It has the same property of thermoforming, please see below guideline for reference.

Guide to oven setting & bending inner radius

Series	NO.	Direct Heat Double Plate Oven	Indirect Heat Conventional Fan Oven	Common Radius
Regular Solid Surface	033A	150-160°C, (302-320°F) 10-15 Mins	150-160°C, (302-320°F) 10-20 Mins	≥ 70mm (≥ 2-3/4")
AcryMed	033Z	150-160°C, (302-320°F) 10-15 Mins	150-160°C, (302-320°F) 10-20 Mins	≥ 100mm (≥ 3-15/16")

- Every oven is different. Results can vary. Discoloration is possible.

HOW TO CARE AND STORE?

Storage:

- Store the sheets flat on a level surface
- Keep away from teak oil and other products that can stain the finish
- Use china markers or water-based markers to draw patterns
- Pen marks can usually be removed with household cleaners
- Keep away from heat sources that exceed 180°F
- Save the scraps for small parts, shims, spacers and plugs

Handling:

- Full pallets should be unloaded from the delivery vehicle using a forklift.
- Each sheet should be carried by at least two people, keeping bending and flexing to a minimum.
- Always use the proper safety equipment when handling material.

Product inspection

- Inspect all material before cutting process begins.
- Meganite® AcryMed sheets are matched by lot numbers printed on or adhered to each sheet.

- Always pay close attention to lot numbers to ensure color matching if sheets are to be seamed together.

Here are some of the items to look for when making a visual inspection of the product prior to fabrication:

- Color match from sheet to sheet
- Cracks or chips
- Color consistency within each sheet
- Particulate distribution
- Flatness of sheet goods
- Sanding qualities

HOW TO CLEAN AND MAINTAIN?

Routine cleaning with soap and water and a sponge, or window cleaner and paper towels will remove most dirt and stains.

WHAT ARE THE RECOMMENDED HOUSEHOLD OR HEALTHCARE CHEMICALS/CLEANSERS TO APPLY ON MEGANITE® ACRYMED? WHAT ARE NOT RECOMMENDED TO PREVENT DAMAGE?

The following chemical concentrations have been tested. Recommended to use with no damages on the surface appearance:

1.	Soap and Water
2.	Solutions with 70% ethanol as the main cleaning ingredients
3.	Solutions with 5% sodium hypochlorite as the main cleaning ingredients
4.	Solutions with 5% hydrogen peroxide as the main cleaning ingredients
5.	Most floor cleaner with non-ionic surfactant with sodium metasilicate
6.	Most commercial detergent. However, commercial detergent with ionic surfactant and benzalkonium chloride are tested NOT damage Meganite® AcryMed surface.

Can cause dyeing or damages on the Meganite® AcryMed surface appearance. Please flush promptly with plenty of soapy water in case of accidental spills.

1.	Cleaners with strong dye concentration (iodine and related strong dye, can cause coloration on the surface)
2.	Acetone-based cleanser
3.	Metal cleaners

4.	Oven cleaners
5.	Cleaners containing methylene chloride
6.	Cleaners containing strong acid or alkali which over 10% are NOT recommended to apply on Meganite® AcryMed solid surface

HOW TO PREVENT DAMAGES?

Meganite® AcryMed can be easily repaired. However, use the following guidelines to prevent damage:

- **Hot Pans and Objects:** As with other solid surface materials, Meganite® AcryMed should be protected from hot pans directly from the stove or oven by the use of hot pads or trivets equipped with rubber-tipped feet.
- **Stove:** Always place a flame-resistant hot pad or trivet underneath a heat-generating appliance such as a crock-pot or electric frying pan.
- **Chemical Protection:** Some strong chemicals can cause damage to your Meganite® AcryMed surface if left in contact very long. Paint removers, oven cleaners, solvents containing methylene chloride or acetone (nail polish remover), acid drain cleaners, toilet bowl cleaners, contact adhesive solvent, rust removers, or lacquer thinners should be flushed with soapy water as quickly as possible, rinsed with clean water and towel tried.
- **Hot Water and Sink:** Run cold water when pouring boiling water into sinks and allow hot grease to cool slightly before pouring onto sink or disposal.
- **Cutting on MEGANITE:** Do not cut directly on a MEGANITE® surface, always use a cutting board.

IS ACRYMED RENEWABLE AND IS IT BETTER THAN LAMINATED SURFACE?

Meganite® AcryMed solid surface is renewable because it is solid throughout and homogeneous all the way through. Follow the basic repair process of solid surfaces, such as joint and polish. Most of the damages, including severe impact, heat or chemical damage, can usually restore the integrity!

IF YOU HAVE QUESTIONS, PLEASE CONTACT MEGANITE SOLID SURFACE REPRESENTATIVES, AUTHORIZED FABRICATORS, DISTRIBUTORS OR EMAIL US AT INFO@MEGANITE.COM.

ALL TECHNICAL BULLETINS CAN BE FOUND @ WWW.MEGANITE.COM