

SM8000

Acrylic Polyurethane Anti-Microbial Clear Topcoat

DESCRIPTION & USES Acrylic Polyurethane **ACTIVE-DEFENCE** two component Non-Yellowing clear that can be used to both seal and topcoat. This product has excellent non-yellowing characteristics making it ideal for application on light timbers/woods and man-made veneers. Furthermore this product provides protection to the substrate from colour change due to UV light exposure with UV prohibitors added in the manufacturing process. SM8000 provides good surface hardness, good moisture resistancy, very good natural feel to the touch and good covering power. Our **ACTIVE-DEFENCE** range has the added protection of preventing bacterial and fungal growth. Surfaces coated with **ACTIVE-DEFENCE** products contain Zinc Pyrithione and Thiabendazole which are able to penetrate the cellular wall of the microbe. DNA and RNA of the microbe is disrupted, breaking the organisms structure and preventing its ability to duplicate.

Recommended Application: For use over sealer SL4340 & SL4355.

Suggested Application Areas: Hospitals, Medical centres, Dental surgeries, Nursing homes, Universities and Schools, Laboratories, Libraries, Hotels, Shopping centres, Bars and Restaurants.

DRY FILM PROPERTIES

Colour: Clear
Gloss: 5%, 10%, 25%, 60%, 90%

WET PROPERTIES

Solid content: 23% (approx)
Viscosity in drum: 28-34 seconds Ford Cup 4 @ 20°C (approx)
Shelf life: 12 Months in sealed containers

APPLICATION

Method: Spraying conventional
Mixing Ratio: 5 parts SM8000 to 1 part SV4310 hardener
or
 10 parts SM8000 to 1 part SV4360 hardener (higher build – subject to availability)

Thinning: THIN444 or THIN4000 at 10%-30% of part A (Depending on the type of equipment used)
 In hot conditions NT573 can be added

Drying: Dry for stacking: 5-6 hours at 20°C or 80-90 minutes at 50°C
Pot Life: 24 hours (approx)
Application weight: 100 - 140 g/m²

NOTES Additional UV Prohibitor XT170 (PU) can be added before application for extra protection to the substrate from discoloration caused by UV/Sunlight.

FOR INDUSTRIAL USE ONLY Data shown are mean values and cannot be construed as product specifications. Users are advised to make their own tests to determine the suitability of products for their own purposes.

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Antimicrobial Assessment of One Coating Sample

3601485.12

One sample of SM8000 was received from Croma Coatings incorporating an antimicrobial on January 28, 2020. At Thomson Research Associates, Inc., the sample was accelerated aged and tested for antimicrobial activity using a quantitative test method.

PROCEDURE

Quantitative Antibacterial Assessment:

ISO 22196:2011 was used to quantitatively test the specimen for antibacterial activity. In brief:

1. The sample was placed into a container with a lid.
2. A 0.3 mL inoculum of *Staphylococcus aureus* (ATCC #6538) was placed in microdroplets on the surface of the samples.
3. The specimen was incubated 24 hours at 37C.
4. 20 mL of Lethen broth was added to the container and shook. The liquid was plated using dilution techniques.
5. The “Value of Antimicrobial Activity” was carried out using the formula

$$R = [\log (B/C)]$$

Where:

R= value of antimicrobial activity

B = Average of the number of viable cells of bacteria on the untreated test piece / inoculum control after 24 hours

C = Average of the number of viable cells of bacteria on the antimicrobial test piece after 24 hours.

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RESULTS

Quantitative Assessment of Activity - ISO 22196:2011					
<i>S. aureus</i>					
Concentration of starting inoculum			2.83 x 10 ⁵		
Sample Description		No. Bacteria Recovered	Log Value	R = [log(B/C)]	% Reduction
1	SM8000, With Additive	2.95 x 10 ¹	1.5	4.0	>99.9%
Inoculum control		3.34 x 10 ⁵	5.5	---	---

Note: ASTM F1980 - Accelerated Aging of Sterile Barrier Systems for Medical Devices was used simulate real shelf-life aging. An incubation of 4 weeks at 60C is roughly equivalent to 1-year shelf life study.

THOMSON RESEARCH ASSOCIATES, INC.



Microbiology Manager



Microbiologist

c: Protective Technology