Sarex Overseas
A division of Saraf Chemicals Pvt. Ltd.

VENUS-5700

- Antiviral and Antibacterial agent based on Silane Quat

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VENUS-5700

• INTRODUCTION

Venus-5700 is a Methanol free, non-leaching Antimicrobial and Antiviral agent, it is based on Silane Quat Chemistry (having CAS No. 27668-52-6).

It imparts Antiviral, Antibacterial and Antifungal properties when applied on -

- ☑ Plastics
- ☑ Ceramics
- ☑ Resins
- ☑ Wood
- ☑ Metals
- ☑ Polymers
- ☑ Textiles
- ☑ Glass

• FEATURES

1. Topical application ensures 90-180 days of antimicrobial protection when applied on Plastics, Polymers, Resins etc
2. Ensures life time antimicrobial protection when incorporated within the polymer/Resin/Plastics before extrusion/molding processes
3. Prevents biofilm formation
4. Enhances biosecurity when used in combination with disinfectant protocols
5. Odorless, colorless, and non-toxic
6. No microbial adaptation, resistance or mutation

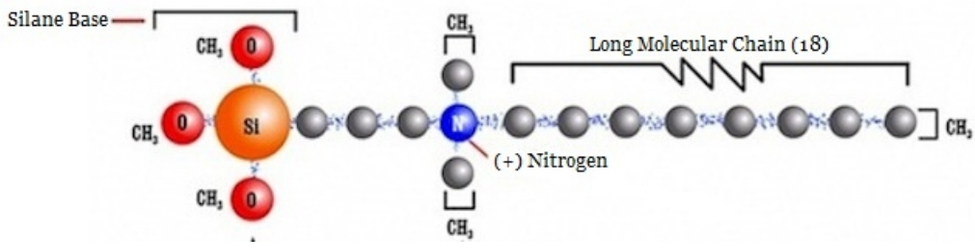
Effective against following microbes': Bacteria, Fungi, Yeast, Mold, Algae, Viruses

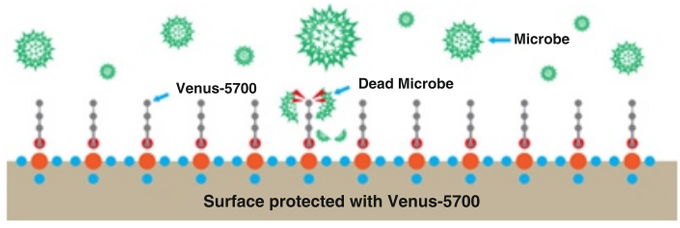
Bacteria		Fungi	Yeast	Algae	Mold	Viruses
Gram positive	**Gram negative**					
• *Staphylococcus aureus* • *Bacillus subtilis* • *Streptococcus faecalis*	• *Escherichia coli* • *Klebsiella pneumonia* • *Samonella typhosa* • *Mycobacterium tuberculosis*	• *Aspergillus niger* • *Aspergillus terreus* • *Aspergillus flares* • *Chaetonium globosum*	• *Saccharomyces cerevisiae* • *Candida albicans*	• *Cyanophyta oscillatoria* • *Cyanophyta anabaena* • *Chlorophyta selenastrum gracile*	• *Black mold*	• *Influenza A2* • *Influenza B* • *Adenovirus* • *MS2 Bacteriophage*

• AREAS OF APPLICATION

• METHOD OF APPLICATION

• MODE OF ACTION





• VENUS-5700 WILL PASS

VENUS-5700

- AATCC 100:2012
- AATCC TM147-2011
- AATCC 30:2017
- ISO 18184:2019
- JIS Z 2801:2012
- ISO 22196:2011

• TEST RESULTS ON VARIOUS SURFACES

Name of Test : Test Method for Antimicrobial Activity of Hard Non-Porous Surfaces – JIS Z 2801: 2012
Test Organisms : Staphylococcus aureus ATCC 6538 & Escherichia coli ATCC 8739

Test Conditions :

Contact Time : 24 Hours at 35°C +/- 1°C
Incubation Temp : 35°C +/- 1°C
Neutralizer Used : D/E Neutralizing Broth
Media and Reagent : TSA Agar
Incubation Period : 48 Hours

Sample Description: ACRYLIC 2% VENUS-5700

Sample Identification	Parameter	Bacterial count after 0 hr (Cfu / Sample)	Log of 0 hr	Bacterial count after 24hr (Cfu / Sample)	Log of 24 hr	Antimicrobial Activity (R) R = [Log (B-C)]
Treated	S. aureus	100	2	7600	3.880	2.03
Un-Treated		420	2.623	820000	5.913	
Treated	E. coli	520	2.716	20000	4.301	2.23
Un-Treated		930	2.968	3400000	6.531	

Sample Description : WOOD 2 % - VENUS-5700

Treated	S. aureus	350	2.544	1	0	2.8
Un-Treated		520	2.716	770	2.886	
Treated	E. coli	280	2.447	1	0	2.9
Un-Treated		620	2.792	810	2.908	

Sample Description: CERAMIC TILE 2 % - VENUS-5700

Treated	S. aureus	61000	5.785	111000	5.045	2.49
Un-Treated		4800000	6.681	35000000	7.544	
Treated	E. coli	4000000	6.602	31000	4.491	2.24
Un-Treated		77000000	7.886	5500000	6.740	

Sample Description: GRANITE 2 % - VENUS-5700

Treated	S. aureus	140	2.146	1	0	2.5
Un-Treated		2400	3.380	340	2.531	
Treated	E. coli	1200	3.079	1	0	3.3
Un-Treated		3500	3.544	2000	3.301	

Sample Description: PLASTIC SHEET 2 % - VENUS-5700

Treated	S. aureus	50	1.698	1	0	5.3
Un-Treated		60	1.778	180000	5.255	
Treated	E. coli	80	1.903	35000	4.544	1.5
Un-Treated		590	2.770	1050000	6.021	

Sample Description: SUNMICA 1 % - VENUS-5700

Treated	S. aureus	1	0	1	0	2.04
Un-Treated		130	2.113	110	2.041	
Treated	E. coli	680	2.832	1	0	2.78
Un-Treated		950	2.977	600	2.778	

Note: A Value of 2.0 or above is considered "antimicrobial" by JIS. (2 log reduction = 99% reduction)

Where,
R= Value of antimicrobial activity
A = Average of the number of viable cells of bacteria immediately after inoculation on the untreated test piece
B = Average of the number of viable cells of bacteria on the untreated piece after 24 hrs.
C = Average of the number of viable cells of bacteria on the treated piece after 24 hrs.

Remark: The sample shows antibacterial activity against both S. aureus & E. coil.

Disclaimer:

Typical properties should not be considered as specification.
Product covered by valid patents are not offered or supplied for commercial use. The Patent position should be verified by the customer.
Products will not be supplied to countries where they could be in conflict with existing patents.
Products currently covered by valid US patents are offered for R&D use in accordance with 35 USC 271 (e) (l)
Above information is given in good faith and without warrenty.

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