



Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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PRODUCT LITERATURE

SARAGUARD-5700 (CONC)

Product Information

Saraguard-5700 (Conc) is a powder form methanol free antibacterial and antiviral agent which is suitable for all types of textile substrate. Saraguard-5700 (Conc) can be applied by padding, exhaust, soaking and spraying methods. Saraguard-5700 (Conc) is non-leaching antimicrobial agent and is durable to multiple home launderings. It shows antibacterial and antifungal activity by contact mechanism. Saraguard-5700 (Conc) shows excellent antimicrobial activity on non-woven substrates also. Saraguard-5700 (Conc) will provide protection against wide range of Gram positive and Gram negative bacteria's, fungi and wide range of viruses. Saraguard-5700 (Conc) is suitable for application personal protective equipment/ clothing (PPE) used in medical and other textile substrates.

It can be applied by spray technique on the surface of shoes and packing box or paper to prevent mildew formation.

Key Features & Benefits

Key features	Benefits
Concentrated	Available in powder form
Non-leaching	Durable to multiple home launderings
Broad spectrum	Works on all types of microbes such as Staphylococcus aureus, Escherichia coli, Klebsiella pneumoniae, Methicillin - Resistant Staphylococcus aureus (MRSA), Aspergillus Niger
Universal	Suitable for cotton, polyester, polyamide, acrylic and polypropylene non woven

General Characteristics

Physical appearance	: Off white to pale yellow powder
Ionic Nature	: Cationic
pH of 1% solution	: 8 +/-1
Miscibility	: Miscible with water
Compatibility	: Compatible with cationic and nonionic products
Stability	: Stable to dilute acids and unstable to dilute alkalies



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Application

Padding process

Saraguard-5700 (Conc) (1% Diluted)	: 100-200 g/l
Pick-up	: 65-70 %
Bath pH	: 5.0-6.0
Drying	: 140-160 deg.C, 1 min. (all substrates)
	: 120-130 deg.C, 60 sec. (polypropylene)

Exhaust process

Saraguard-5700 (Conc) (1% Diluted)	: 10-20%
Bath pH	: 5.0-6.0
Bath Temp.	: 30-40 deg.C
Time	: 15-20 mins.

Soaking Method

Prepare 10-20% solution of Saraguard-5700 (Conc) depending on the durability required in a vessel. Introduce the fabric in the vessel containing Saraguard-5700 (Conc) solution and soak the fabric for 20-30 minutes at 30-40deg. C with intermittent stirring. Unload the fabric and hydro extract it to remove excess liquor, without rinsing. Dry the fabric at approximately 140°C

Spraying Method

Prepare 10-20% solution of Saraguard-5700 (Conc) depending on the durability required in a vessel. Spray the solution on the fabric using a spray gun then dry the fabric at approximately 140°C

- * The product must be diluted with water and kept standing for 60 minutes before application on any substrates. This helps in proper activation of the product and thus increases the reactivity and durability of the product
- * Concentration of the above product to be taken on the basis of durability Requirement.
- * For application in medical textiles the dosage of the above chemical has to be Optimized depending on the GSM of the fabric and (%) Expression



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Instructions For Dilution

Procedure to prepare 1% Saraguard-5700 (Conc)

- Take 70 parts of ISO Propyl Alcohol + 30 parts of distill water.
- Warm the above mixture to 55-50 deg.C
- To this add 1 part of Saraguard-5700 (Conc) and stir continuously at 300-400 rpm for 30-45 mins at 55-60 deg.C
- After the product is completely dissolved continue stirring at room Temperature for 25 mins at 300-400 rpm.
- The final product will be colourless clear liquid with yellow tint

Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]
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