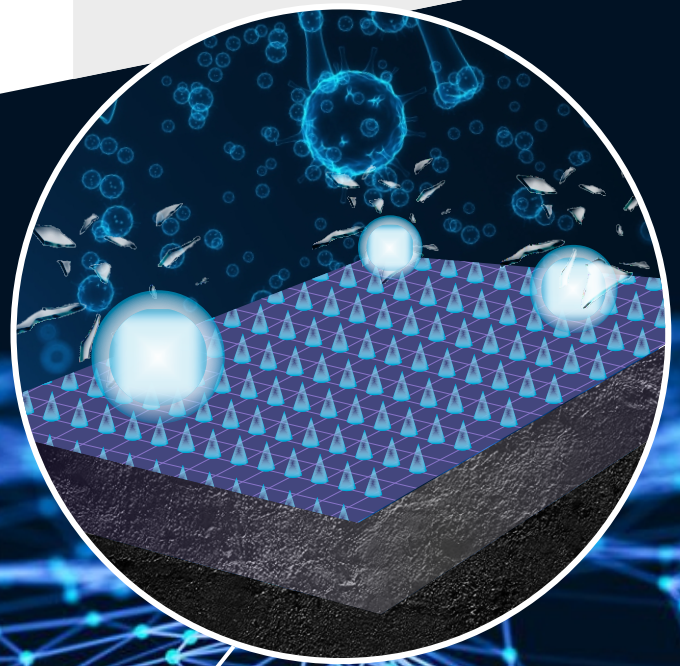


RETENTIVE SILANE DISINFECTANT



ZYCROBIAL-50

QUATERNARY AMMONIUM SILANE FOR
ANTI-MICROBIAL EFFICACY

(FOR INDUSTRIAL USE ONLY)

FEATURES

- Odorless
- Easy to dilute and apply
- Surface compatibility
- Broad spectrum - shields the surface against bacteria/virus
- Stable on storage
- Non-flammable
- Retentive for 90 days (under simulated conditions)

Toll Free:
1-800-12300-7666

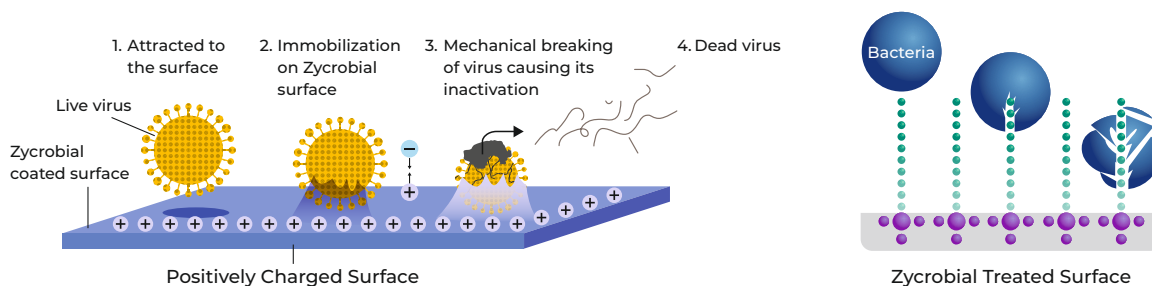
www.zydexindustries.com

DESCRIPTION

Zycrobial-50 is the next generation retentive “anti-microbial” technology that works on all surfaces with the added benefit of applying through water solution.

MECHANISM OF ACTION

- The silane functionality of Zycrobial-50 bonds chemically or physically with the treated surface making a gel layer which is positively charged. This makes a retentive bio-static layer.
- It also has a hydrocarbon layer which sticks to and disrupts the lipid layer of the enveloped viruses or the cell wall of the bacteria. Negatively charged bacteria and viruses are electrocuted due to the positive charge of silane quat.
- The combined action of this biostatic layer reduces the transmission rate of viable microbes from the treated surface.
- Zycrobial-50 has been found effective against broad spectrum of bacteria.



APPLICATION

ZYCROBIAL-50 SOLUTION PREPARATION :

- Add one part of Zycrobial to 50 parts of water i.e. 100 ml of Zycrobial to 5 liters of water and **stir the solution vigorously** for 5 min before using.
- Use the solution after preparation within 7 days
- Do not use as hand sanitizer or spray on humans, animals and avoid inhalation.

SURFACE APPLICATION METHOD:

- Clean the solid surfaces with mild detergent and water before spraying Zycrobial solution.
- Spray the solution on surfaces using a high-pressure mist sprayer/fogger only with dilution to ensure the deposition of finer atomized droplets and better surface coverage. Before mist spray check the effect and re-wetting on a small trial area before proceeding. If you experience a sticky surface then increase the dilution and after misting hand mopping should be done. For very smooth granite, marble, Kota stone, SS surfaces, and smoothly coated walls, application with hand mopping is recommended.
- High-pressure mist sprayer/fogger/hand mopping is recommended for exterior application. § For interior application fogger & hand mopping is recommended.
- Allow the treated surface to dry at room temperature overnight. The treated surface now has a retentive disinfectant layer.
- Note Zycrobial active has reactive Silane quat and forms a bonded protective structure on the surface to be coated. Hence always do a trial with the suggested applicator and method before usage.
- Use facemask, goggles and gloves before applying the product

TEXTILE APPLICATION METHOD:

- All clothing and other textile products should be treated by soaking them for at least 10 minutes in Zycrobial solution, followed by wringing the textile material and drying at room temperature. Use Zycrobial solution post detergent wash.

RECOMMENDATION FOR CLEANING:

- Use plain water, plain water with mild detergent and any standard cleaning method. Avoid excessive scrubbing of treated surface.

TECHNICAL DATA

Physical form	Liquid
Active content	40 ± 2%
Flash point	85°C
Solubility	Water soluble

TOXICOLOGY DATA

It has been tested and found to be a safe biological active finish for use based on following study.

HAFFKINE INSTITUTE - MUMBAI	
Test	Result
Primary Skin Irritation	Passes <input checked="" type="checkbox"/>
Mucous Membrane Irritation	Passes <input checked="" type="checkbox"/>
Acute Oral Toxicity	Passes <input checked="" type="checkbox"/>
Intra-cutaneous Sensitization	Passes <input checked="" type="checkbox"/>

NATIONAL TOXICOLOGICAL LAB - PUNE	
Test	Result
Skin Sensitization Potential	Passes <input checked="" type="checkbox"/>
Mutagenicity Study by AMES	Passes <input checked="" type="checkbox"/>

STORAGE & SHELF LIFE

- Minimum shelf life is 48 months.
- Keep the Zycrobial container in a cool, dry and shaded area.
- Do not store the Zycrobial container under direct sun or at a temperature higher than 40 °C.
- Keep the Zycrobial container tightly closed when not in use (product is reactive to atmospheric moisture).
- Avoid closing lid with wet hands.

DISCLAIMER

The information & data contained herein are given after testing under standard conditions. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances at the user end, under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers. The process of application and storage also needs to be ensured by the user to ensure uniform results.

ABOUT ZYDEX

Established in 1997, Zydex is a specialty chemicals company with the purpose of innovating to create a sustainable world through conservation of resources.

Beyond construction products, Zydex offers a diverse set of chemical technologies for the textile, agriculture and pavement industries. We were recently recognised as one of the 25 Most Innovative Companies in India by the Confederation of Indian Industry (CII).

Sustainable Green Chemistry

Zydex is deeply committed to sustainable chemistries that will ensure a greener future for everyone. Our commitment has made us a pioneer in introducing non-polluting and non-hazardous technologies that conserve, protect and enhance the environment. Pursuing chemical innovations that would mean a greener, safer and more resource renewable world is our passion. Our technologies have been recognized for their contribution to sustainability and are globally accepted.



25 Most Innovative Companies of India



Certified Company

GLOBAL PRESENCE

