

Peroxi-Quat for the control of

Biofilm in Drains

About PeroxyQuat

Technology

Active ingredients:

- Quaternary Ammonium chloride
- Hydrogen Peroxide

A powerful combination chemistry developed by pairing the negatively charged Perhydroxide ion with a positively charged Quaternary Ammonium compound.

The two molecules form an intimate ion pair resulting in "PerQuat", a Hydrogen Peroxide and Quat hybrid with unique cleaning and antimicrobial efficacy.

This powerful technology can be used in a variety of industrial and public health environments to remove Biofilm from the surfaces.

Pathogens Reside in

Biofilm/Challenges

Biofilms are natural habitat for microorganisms

Microorganisms in biofilms express resistance (1000 times the dose of antimicrobials required)

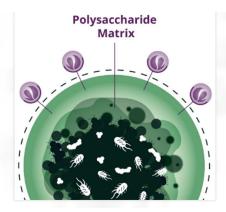
Sessile vs. planktonic (floating) organisms:

🚅 - Protein | 🔊 - Bacteria

Sessile microorganisms embedded in a gelatinous matrix, anchored to a surface by polymeric sugars (polysaccharides)

Control of planktonic organisms does not necessarily mean control of biofilm (false sense of security)

The 3 Step Method To Remove **Biofilms**

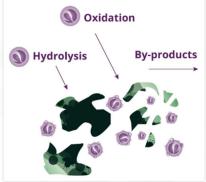


Step 1: Attack and bombard the Biofilm matrix



Key to Diagram:

Step 2: Penetrate the outer layer and dissolve into the matrix



Step 3: Destroy and eliminate the Biofilm matrix by a unique combination of hydrolysis, oxidation and solubilization



Benefits of Using Peroxi-Quat for a

Drain Purge

Destroys and controls microorganisms in the biofilm in the drains

Eliminates fruit flies in the drains

Allows for an easy and quick foam application into drains and down into trunk lines

Allows for disinfection past the trap and a full coverage of the entire trunk line at 360°

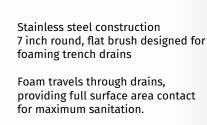
No scrubbing is required

20-3- seconds/drain

Can be used on walls, floors and ceilings to remove Bioflims









Peroxi-Quat Drain Purge

Use **Applications**

Food and beverage processing plants:

- Meat (all stages)
- Poultry
- Dairy
- Wine
- Beer
- Beverage (fruit, soft drinks)

Food service restaurants and supermarkets

Dairy farms

Egg washing, grading, breaking facilities

Hatcheries

Environmental surfaces (walls, floors, ceilings)

Cooling water systems

Peroxi-Quat Drain

Purge Application

Combine Peroxi-Quat with water at the 1:10 dilution rate into the foaming device.

Foam Application (20-30 sec/drain)

Use any existing foaming equipment or portable foaming devices

Required foaming attachment

No rinsing is required

Pathogens and biofilm can accumulate in drains, especially on drain walls above the normal fluid level.

