

Patented Technology for Elimination of Harmful Surface Bacteria

- Up to 90 days of protection
- Alcohol-free
- Durably bonded antimicrobial
- Odorless and colorless
- Long shelf life
- Highly stable, no special storage requirements

What is Novālent®?

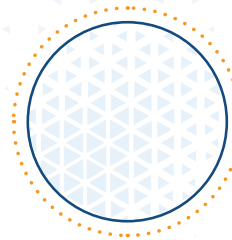
- Bacteriostatic, fungistatic, and algaestatic
- Registered with the EPA for use as a food contact surface treatment
- Durable antimicrobial, lasting up to three months
- Bonds to almost any surface and inhibits the growth of bacteria
- Functionalized micro-coating actively inhibits microorganisms in the dry state, when traditional disinfectants no longer do

How it works

- Novālent® is applied to any clean, dry surface by spraying.
- Once dry, it forms a covalent bond with the surface, forming a protective microbiostatic layer of positively charged long chain molecules.
- Pathogens, spoilage bacteria, and other harmful microorganisms are attracted to the positively charged ion and through lysis of the cell wall, the cell is destroyed.
- Because this is a physical disruption, the destroyed cell cannot mutate or replicate, thus avoiding the possibility of developing antimicrobial resistance.

What microorganisms does Novālent® protect against?

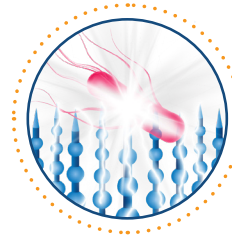
Laboratory tests have shown Novālent® to protect surfaces against a variety of bacteria and fungi, including but not limited to: Human Coronavirus 229E, Listeria Monocytogenes, E. Coli O157:H7, Salmonella Enterica, Campylobacter, Pseudomonas Aeruginosa, Staphylococcus Aureus, Aspergillus Niger/Flavus, Cladosporium, and Penicillium Funiculosum.



Technology bonds to surface immediately after application



Biostatic shield of carbon atoms appears



Shield continuously ruptures harmful microbes that come in contact with it



UP TO
90
DAYS

1 | Novälent® AM/Novälent® AM RTU Basics

Normal cleaning and disinfecting practices only provide protection until the next contamination event. Once dry, the surfaces are no longer protected against microbes.

Novälent® AM/Novälent® AM/Novälent® AM RTU was developed to address this deficiency in available technologies. Novälent® AM/Novälent® AM RTU is a revolutionary broad-spectrum antimicrobial that provides protection against a wide range of microorganisms including bacteria and fungi. Once dry, the Novälent® AM/Novälent® AM RTU layer polymerizes onto the surface, leaving a microbistatic layer that is effective for up to 90 days. Novälent® AM/Novälent® AM RTU is registered with the EPA and approved for food contact surfaces and hospital use.

2 | Equipment and Coverage Rates

Equipment will vary according to the environment and time constraints. The most common method of application for Novälent® AM/Novälent® AM RTU is by spraying with a trigger sprayer, pump-up sprayer or backpack sprayer. Coverage will vary (see spray chart on the next page).

The most efficient way to spray and cover ALL surfaces in a room is by electrostatic sprayer such as ESS XT-3 or an electric cold fogging unit such as the Flex-A-Lite 2600. For coverage rates, see spray chart on the next page.

NOTE: When computing total gallons needed, do not use square feet of the facility as a guide. This is only the footprint. Calculate ALL surface area to be treated, that includes floors, walls, ceilings and an estimate of equipment within each area. Consider walls and ceilings the last areas to be treated.

3 | Storage and Handling

The user should be familiar with all the cautions listed on the label of the Novälent® AM/Novälent® AM RTU packaging. Proper PPE is recommended, eye protection, and latex or nitrile gloves. Refer to the SDS (Safety Data Sheet) for proper handling instructions.

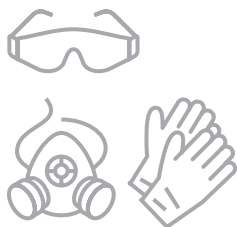
Stored Novälent® AM/Novälent® AM RTU should be kept at a temperature between 32 °F to 100 °F (0.5 °C to 38 °C). Do not allow the product to freeze. If the product does freeze, allow it to thaw and mix thoroughly before using. Refer to the SDS (Safety Data Sheet) for proper storage instructions.

4 | Pre-application Requirements

The bonding technology of Novälent® AM/Novälent® AM RTU, requires certain surface conditions. All surfaces to be treated must be clean and dry before application.

Clean

Surfaces must be cleaned with a detergent to remove all soil and prepare the surface for the application of Novälent® AM/Novälent® AM RTU. After cleaning, the surfaces must be thoroughly rinsed with clean water to remove all chemical residues and allowed to dry completely. This process will remove all cleaning product residues, leaving the surface properly prepared for the application of Novälent® AM/Novälent® AM RTU.





5 | Applying Novālent® AM/Novālent® AM RTU



Apply Novālent® AM/Novālent® AM RTU for long lasting protection

After ensuring all surfaces are thoroughly dry, apply a coating of Novālent® AM (diluted at 1:5)/ Novālent® AM RTU by spraying. Allow to dry, then apply a second coat.

(Note: two light coats are better than one heavy coat).

Once the treated surfaces are completely dry, Novālent® AM/Novālent® AM RTU is active against microorganisms. Novālent® AM/Novālent® AM RTU bonds to the surface with a copolymer bond and does not wash off during normal cleaning cycles. However, vigorous abrasion, temperatures above 482 °F (250 °C) and very high pH cleaning chemicals (pH13) may remove the biostatic protective coating in less than 90 days.

Normal cleaning regimes should be continued on the protected surface between applications of Novālent® AM/Novālent® AM RTU.



Estimated Coverage by Application (One Coat)

| Sprayer | Square Feet/Gallon | Square Meters/Liter |
|---------------|--------------------|---------------------|
| Trigger | 250 | 5 |
| Pump-up | 1000-1500 | 25-35 |
| Electrostatic | 3000-4000 | 75-100 |

6 | Post-Application Process

When at all possible, Novālent® AM/Novālent® AM RTU treatment should be allowed to air dry.

If the surfaces have been wet with Novālent® AM/Novālent® AM RTU for a minimum of ten minutes, the surface may be wiped dry.

Studies show regular daily cleaning helps to extend the efficacy of Novālent® AM/Novālent® AM RTU. At the same time, high-touch areas may require more frequent applications of Novālent® AM/Novālent® AM RTU. Ask us how to predict and assess the durability of Novālent® AM/Novālent® AM RTU in your facility.

