



**KIMBERLY-CLARK® INTEGUSeal®  
Microbial Sealant**



*Lock down skin pathogens  
Lock out contamination worries.*



**Kimberly-Clark**

*Trusted Clinical Solutions\**



**“...infection at the surgical site remains a too common event and a major source of morbidity following operating procedures.”<sup>1</sup>**

— Donald E. Fry, MD, FACS

**Compared to an uninfected patient, the patient with an SSI:<sup>2</sup>**

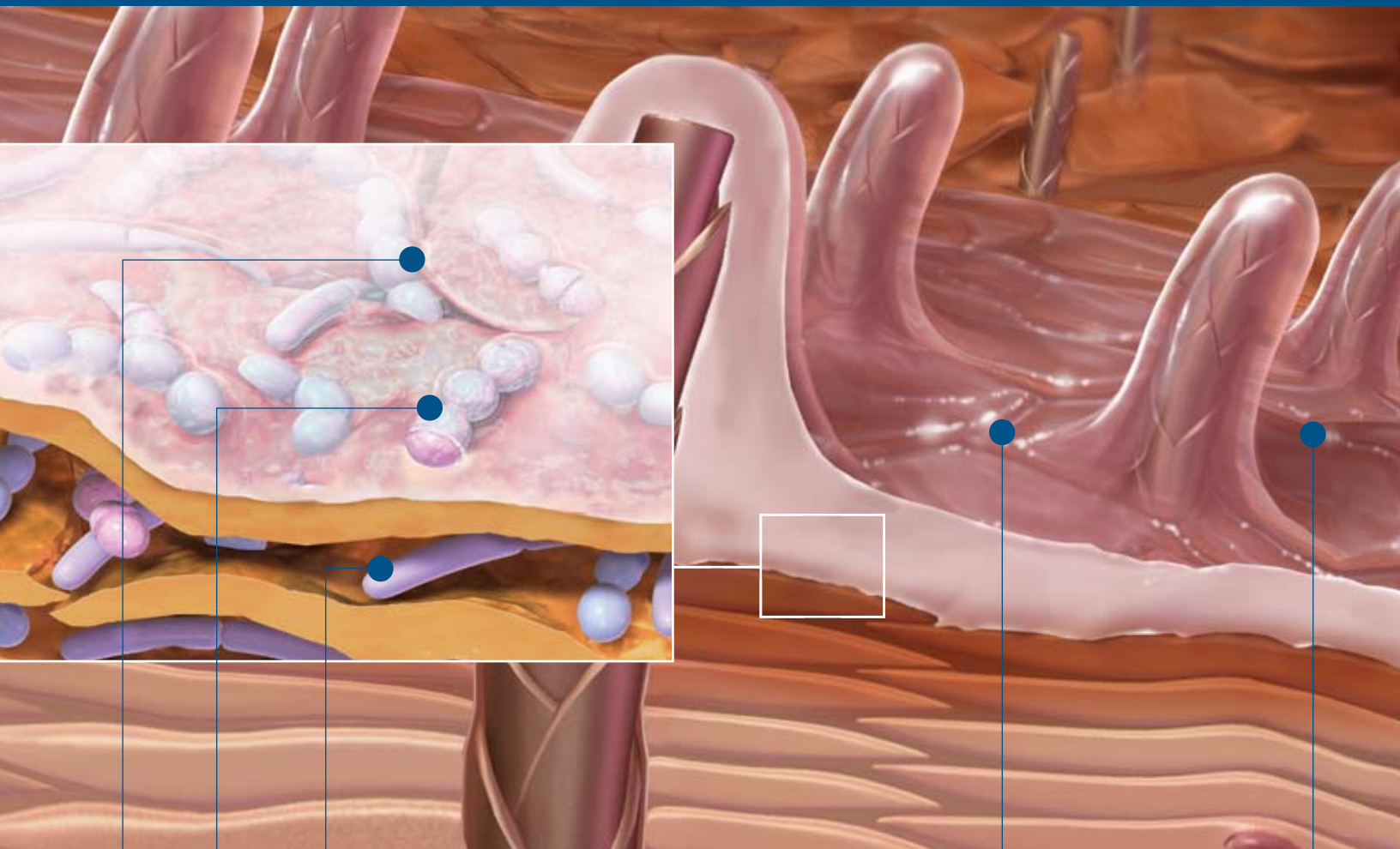
- Stays hospitalized seven days longer
- Is sixty percent more likely to spend time in the intensive care unit
- Is five times more likely to be readmitted within 30 days of discharge
- Has two times higher mortality rate<sup>2</sup>

**Overall, SSIs may result in up to \$7 billion in direct and indirect medical costs each year.<sup>3</sup>**

**Skin flora wound contamination is a key factor in the development of Surgical Site Infections (SSI).<sup>4</sup>**

**True sterilization of the skin is not possible.<sup>5</sup>**

# A microbial barrier designed to reduce the risk of surgical site contamination by skin flora.



**Locks down bacteria residing deep in the skin and those surviving typical pre-op prepping<sup>6</sup>**

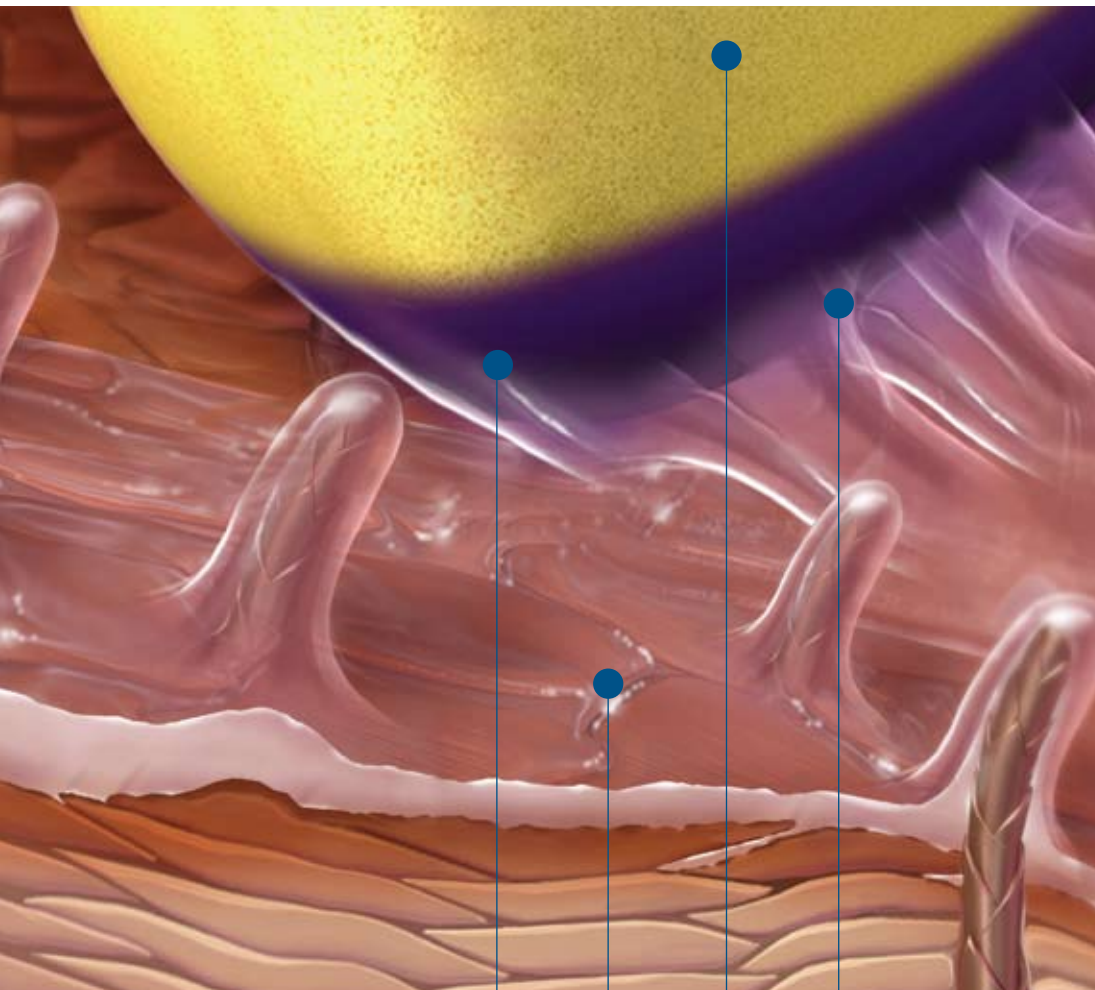
**Breathable properties permit normal skin transpiration<sup>6</sup>**

**Seals and immobilizes dangerous pathogens, including MRSA<sup>6</sup>**

**Safe, time-tested cyanoacrylate technology**

**Helps protect against skin flora migration into surgical incisions<sup>6</sup>**

**KIMBERLY-CLARK\* INTEGUSEAL\***  
**Microbial Sealant**



InteguSeal\* is available in 3 sizes, for use in a full range of procedures. Select IS200 (left) for greatest coverage area (up to 10" x 20"), IS100 for average surgical sites (up to 10" x 10"), and IS50 for smaller incision areas (up to 5" x 10").

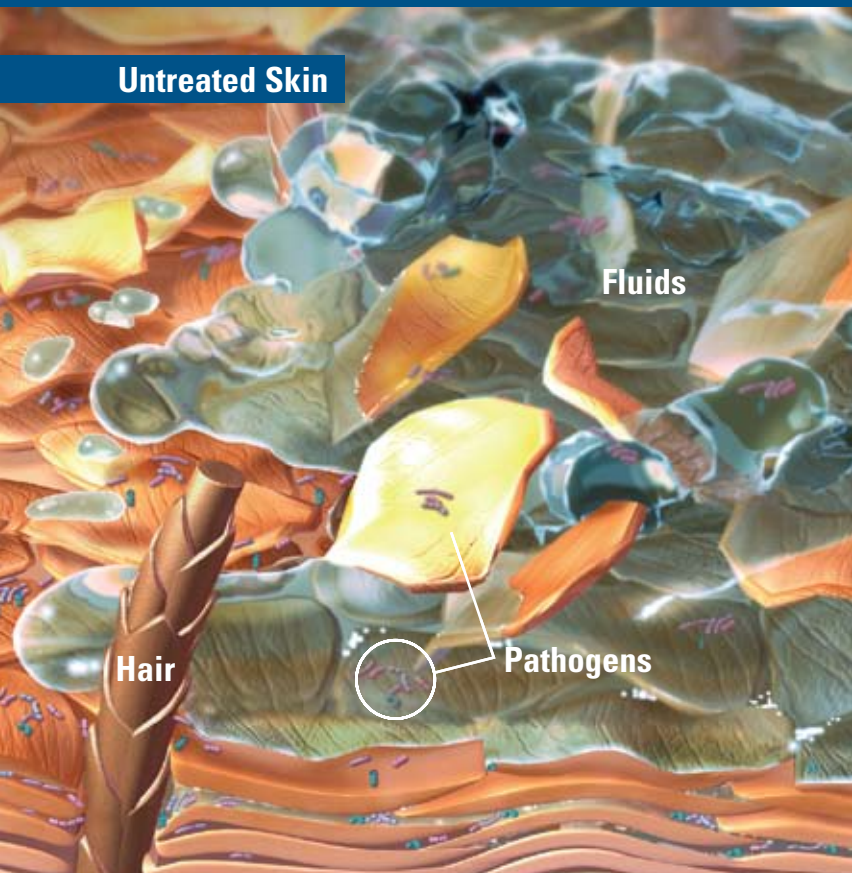
**Quickly applied to any skin surface or contour, and even when a moderate amount of hair is present<sup>6</sup>**

**One stroke delivers effective amounts of sealant**

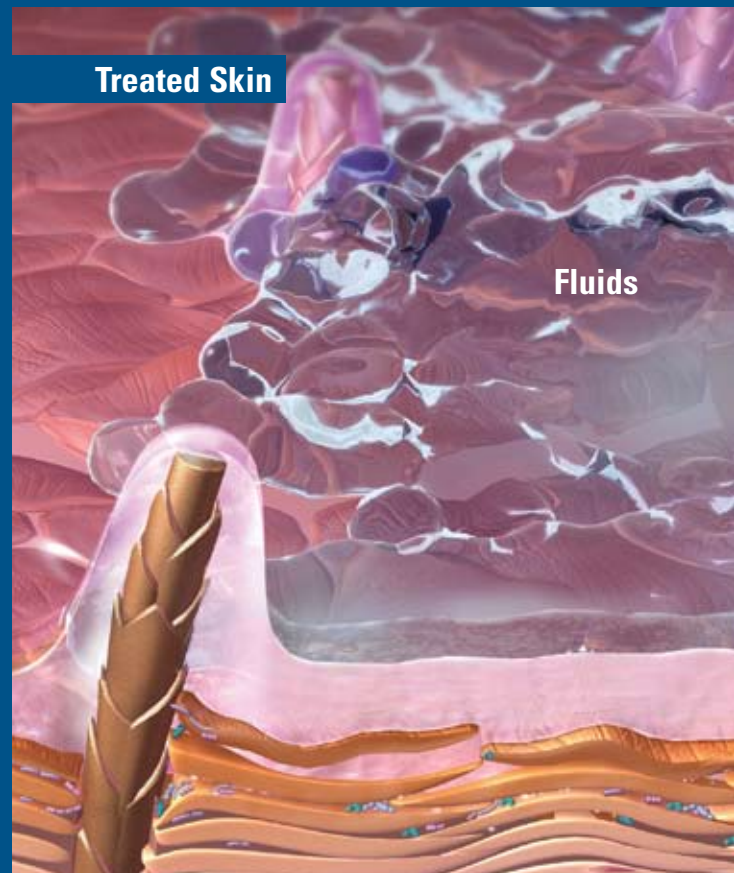
**Ergonomic, easy-to-use applicator**

**Need not be removed for wound closure**

## Advanced and proven mechanism of action locks down bacteria<sup>6</sup>



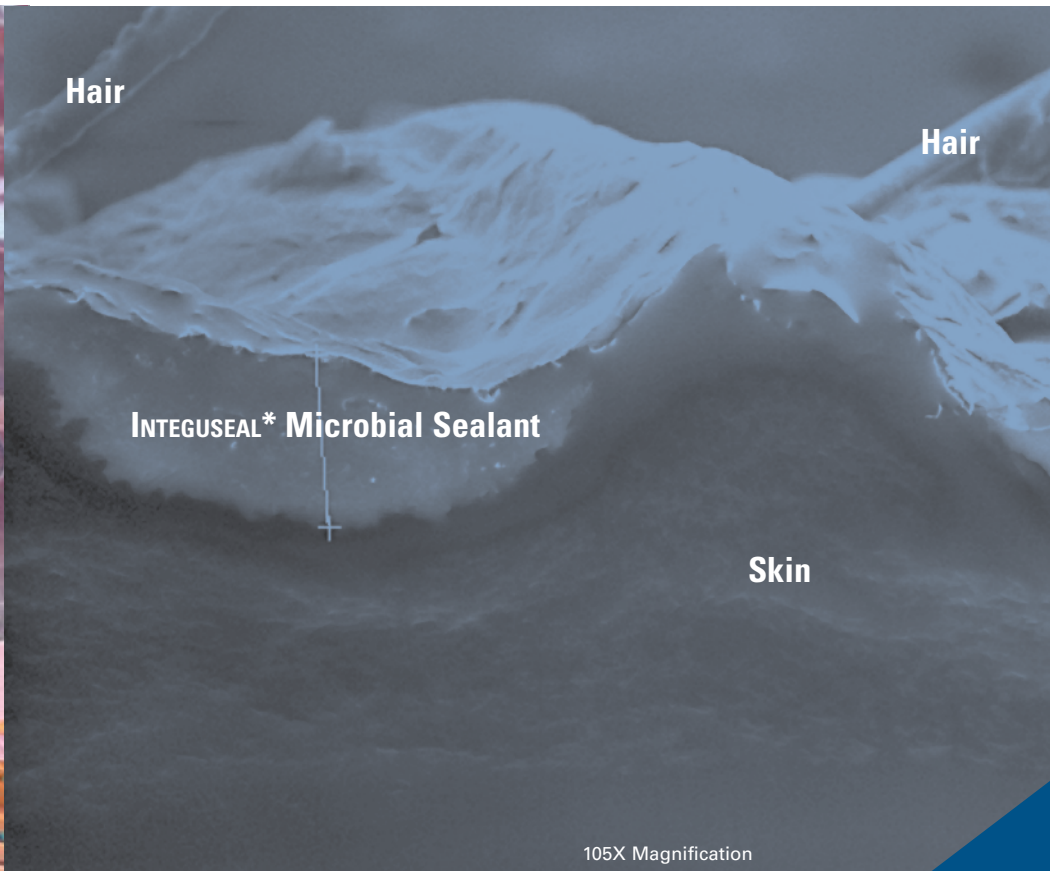
On untreated skin, endogenous pathogens can be transferred into the surgical incision by irrigation fluids, gloves, instruments, sponges, or implants.



KIMBERLY-CLARK\* INTEGUSEAL\* Microbial Sealant forms a protective layer that locks skin flora pathogens in place.<sup>6</sup>

- 1** Fast-drying liquid bonds to the skin, sealing and immobilizing areas where bacteria grow.<sup>6</sup>
- 2** Forms a barrier that protects against skin flora migration into the incision.<sup>6</sup>
- 3** Unique mechanical mode of action does not promote bacterial resistance.<sup>6</sup>

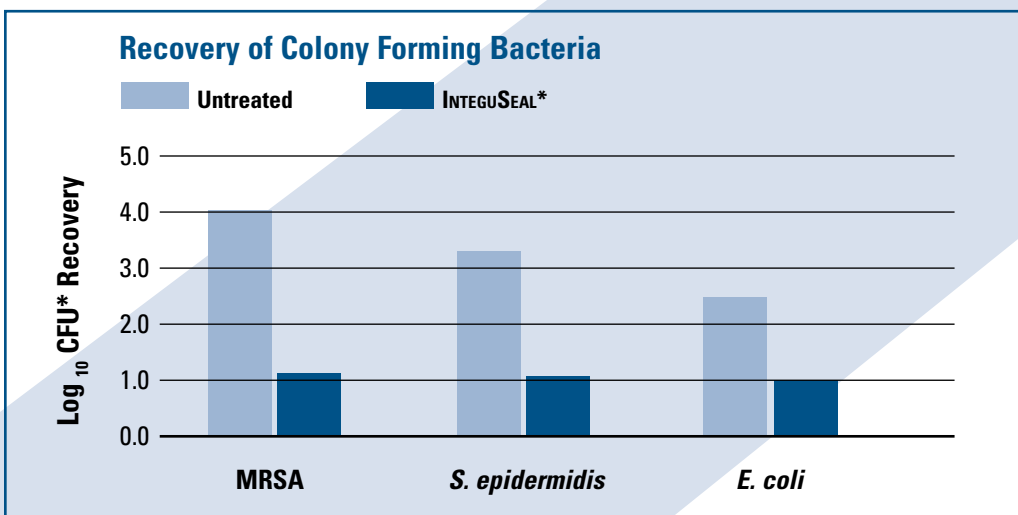
# KIMBERLY-CLARK\* INTEGUSEAL\* Microbial Sealant



Proprietary film-forming cyanoacrylate liquid flows around hair follicles and within skin contours. INTEGUSEAL\* Microbial Sealant even seals micro-abrasions on skin.

Photomicrograph of actual skin model with INTEGUSEAL\* Microbial Sealant

## Effective against common and dangerous skin pathogens\* Immobilizes bacteria such as MRSA, *S. epidermidis* and *E. coli*

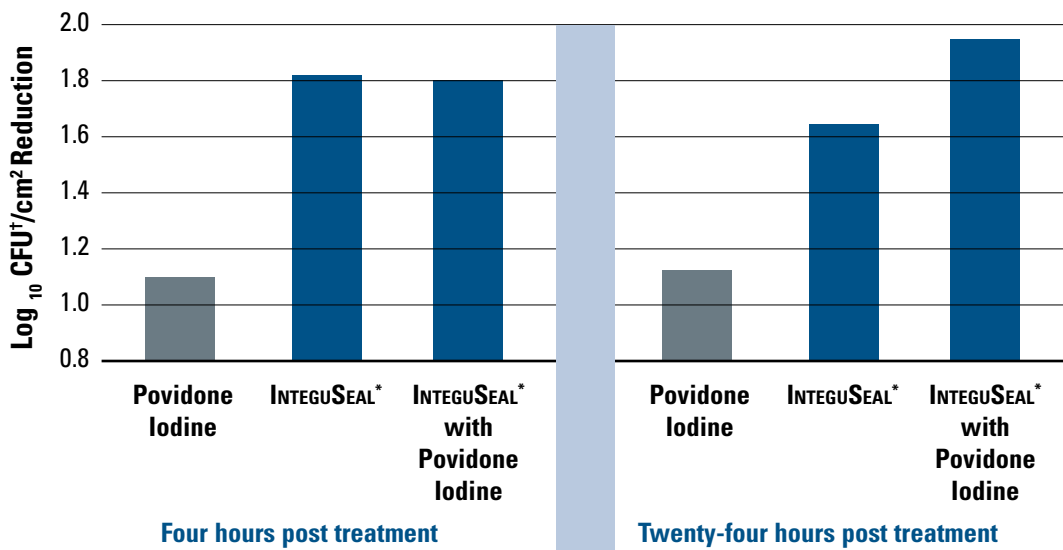


INTEGUSEAL\* Microbial Sealant significantly reduced the amount of MRSA recovered in an *in vitro* surgical incision model by 99.9%, *S. epidermidis* by 99.5% and *E. coli* by 96.6%. ( $p \leq 0.05$ ) See the Performance Summary 3.4

# Demonstrated efficacy and compatibility with current practices

## Highly effective with a variety of prep solutions

Reduction of bacteria recovered *in vivo* using a cup scrub sampling technique four hours and twenty-four hours post treatment.<sup>6</sup>



\*CFU=Colony Forming Units (of bacteria)

INTEGU SEAL\* is compatible with:

- Iodophors
- 2% CHG
- Isopropyl Alcohol

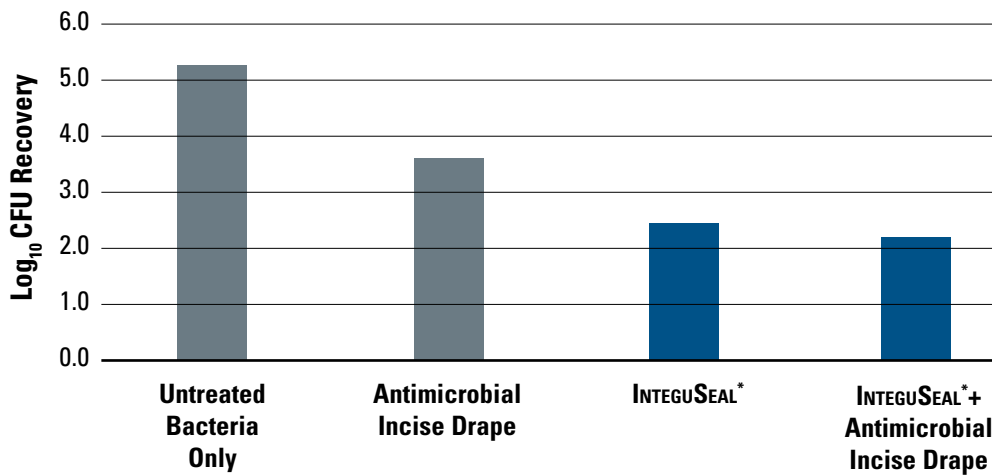
INTEGU SEAL\* Microbial Sealant also helps protect prep from wash-off<sup>6</sup>

See the Performance Summary 3.2



### Can be used with or without antimicrobial incise drapes<sup>6</sup>

Mean recovery using an *in vitro* skin incision model

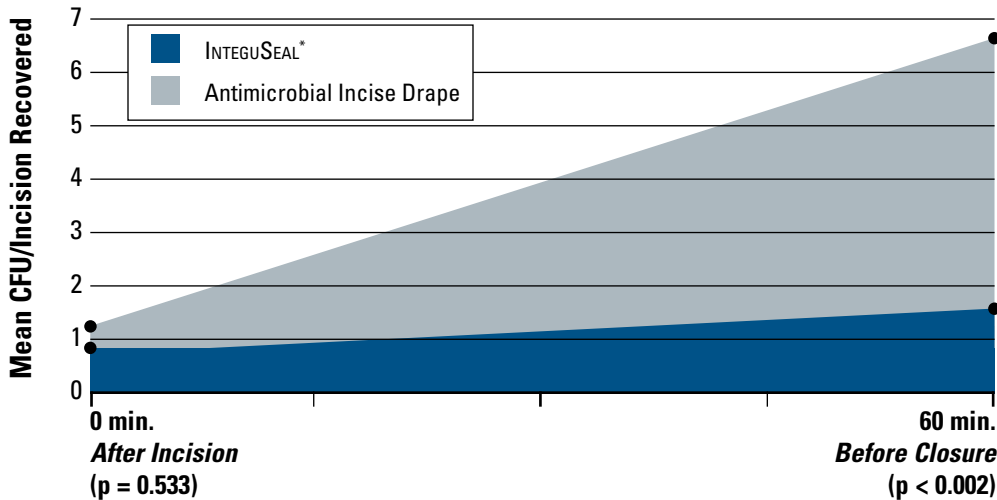


Proven efficacy:  
INTEGU SEAL\* Microbial Sealant significantly reduces the amount of bacteria recovered<sup>6</sup> compared to incise drapes alone. ( $p \leq 0.05$ )

See the Performance Summary 3.3

### Reduce the risk of skin flora contamination throughout a surgical procedure<sup>6</sup>

Wound Contamination After Incision and Before Closure



Before wound closure, INTEGU SEAL\* demonstrates superior performance compared to anti-microbial incise drapes ( $p < 0.002$ ).

See the Performance Summary 3.4

# Use safely and conveniently in real-world clinical conditions

Studies show INTEGU<sup>SEAL</sup>\* Microbial Sealant compatibility with common surgical materials and techniques:

- ✓ Electrocautery
- ✓ Defibrillation
- ✓ Surgical incise drapes
- ✓ Surgical preps
- ✓ Sutures
- ✓ Staples
- ✓ Wound adhesives

## Naturally and gradually wears off skin as skin exfoliates over five to seven days<sup>6</sup>

If necessary, INTEGU<sup>SEAL</sup>\* Microbial Sealant can be removed with soapy water, mineral oil, or acetone<sup>6</sup>

## Meets stringent OR and clinical safety guidelines<sup>6</sup>

- Nonflammable
- Latex-free
- Non-irritating
- Non-cytotoxic
- Not a skin sensitizer
- Non-clastogenic
- Non-mutagenic
- No acute systemic toxicity

## Contraindications

- Do not use in surgical procedures involving mucous membranes or the eyes.
- Do not use on patients with known hypersensitivity to cyanoacrylate. Potential adverse risks may include an allergic reaction to the cyanoacrylate or skin irritation.
- Do not use with preoperative skin preparations containing benzalkonium chloride, hexetidine, and chlorhexidine gluconate (CHG) at concentrations of 4% CHG or higher. Potential adverse risks may include inadequate coverage and/or reduced skin adhesion such as cracking or flaking.
- Do not use on skin with active signs of infection.



## The KIMBERLY-CLARK ADVANTAGE\*

### KNOWLEDGE NETWORK\* Accredited Education

Online at [HAWatch.com](http://HAWatch.com)  
On-site rep-facilitated programs  
HAI Education Bus

### Knowledgeable Customer Support

In-service training  
Product technical support  
Unsurpassed customer service

### Expert Sales Force

Healthcare Industry Representative Credentialed  
On-site trained in hospitals

Infection prevention website:

[www.HAIwatch.com](http://www.HAIwatch.com)



### Tools & Best Practices

Infection Prevention Education Toolkits  
OR Utilization Reviews  
Product Use and Selection Tools  
Best Practices/ Industry Guidelines

### Clinical Research

Staff medical professionals to advise and direct clinical research  
Clinical Scientific research to measure clinical outcomes in patients  
Peer-to-peer consultation

### Commitment to Excellence

At Kimberly-Clark, we deliver innovative healthcare solutions that you can depend on to meet the demands of your fast-paced world, supported by in-service training, clinical research and accredited education. Whenever your needs involve infection prevention, digestive health or pain management, with Kimberly-Clark solutions, you'll have one less worry.



Protection & Infection Prevention



Surgical Solutions



VAP Solutions



Digestive Health



Pain Management

For more information, please call 1-800-KCHELPS (1-800-524-3577) in the United States or visit our website at [www.kchealthcare.com](http://www.kchealthcare.com).

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- 1 Fry DE. *Surgical Site Infection: Pathogenesis and Prevention*. Medscape.com; accessed Aug. 3, 2005.
- 2 Kirkland KB, Briggs JP, Trivette SL, Wilkinson WE, Sexton DJ. "The impact of surgical-site infections in the 1990s: attributable mortality, excess length of hospitalization, and extra costs." *Infect Control Hosp Epidemiol*. 1999 Nov;20(11):725-30.
- 3 Perencevich EN, Sands KE, Cosgrove SE, Guadagnoli E, Meara E, Platt R. "Health and economic impact of surgical site infections diagnosed after hospital discharge." *Emerg Infect Dis*. 2003;9(2):196-203.
- 4 Hagen KS, Treston-Aurand J. "A comparison of two skin preps used in cardiac surgical procedures." *AORN J*. 1995. 62(3):393-402.
- 5 Gilliam DL, Nelson CL. "Comparison of a one-step iodophor skin preparation versus traditional preparation in total joint surgery." *Clin Orthop Relat Res*. 1990. (250):258-269.
- 6 Data on File, Kimberly-Clark Health Care, Performance Summary.



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