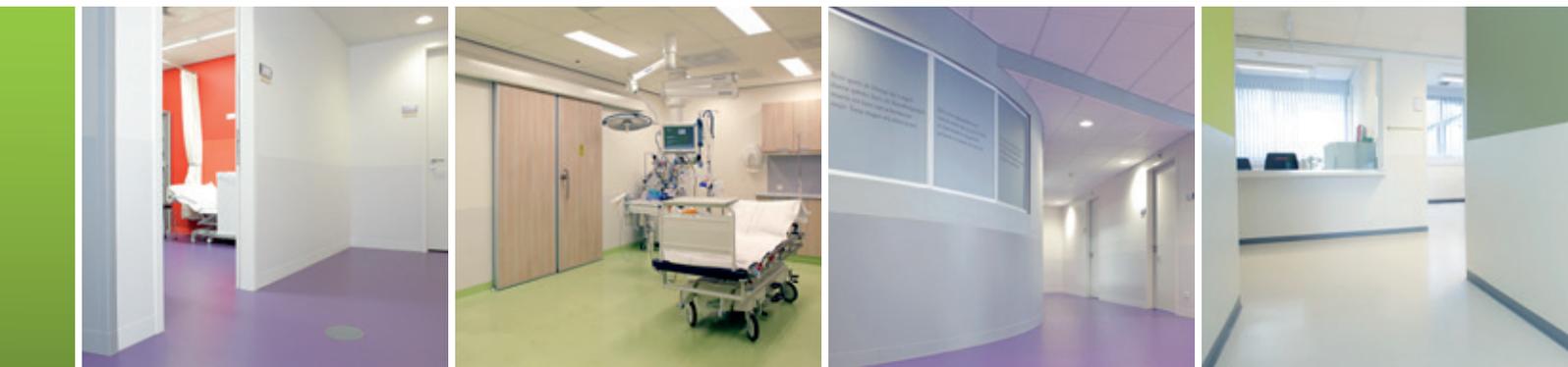


Acrovyn® Bactericide

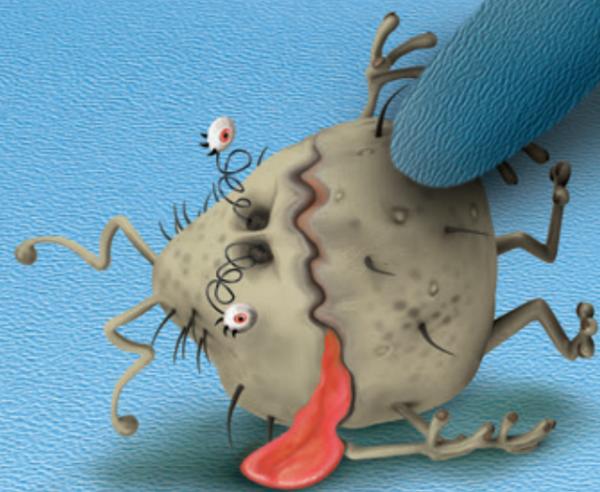
- Wall cladding
- Wall protection
- Handrails
- Door protection



*Truly bactericide wall protection
for where it really matters.*



Only Acrovyn®Bactericide is truly bactericide.



Killing bacteria by „touch“

Acrovyn®Bactericide is a truly novel material that kills bacteria, even tough antibiotic resistant strains, through surface contact alone.

No chemicals are released and the bactericide effect doesn't wear off or diminishes over time, guaranteeing unsurpassed hygienic conditions.

“ For us Acrovyn®Bactericide was a must not an option. ”

Don't take our word for it, take theirs.

Nosoco.Tech, Lyon thoroughly tested Acrovyn®Bactericide and certified our innovative wall covering material to be truly bactericide.

Laboratory tests have shown that the special composition of Acrovyn®Bactericide not only stops completely the growth and propagation of bacteria settled on its surface but also efficiently kills them within a 24 hours cycle (standard test methodology).

But we wanted to be completely sure. That's why we asked Nosoco.Tech, an independent microbiological research institution specialised in the investigation of antimicrobial surface properties of materials. After thorough tests following the European ISO norm 22196 they concluded that the special composition of our material efficiently kills all bacteria within a 24 hour cycle, proofing to be truly bactericide for *Staphylococcus Aureus*, *Escherichia Coli* and *Mycobacterium smegmatis*.

This unique feature works through mere surface contact, literally killing microbes through "touch". What's more, the bactericide effect doesn't wear off or diminishes over time guaranteeing unsurpassed hygienic conditions of the protected surfaces.



All bacteria settled on Acrovyn® Bactericide's surface are killed within a 24 hour time span just through surface contact.

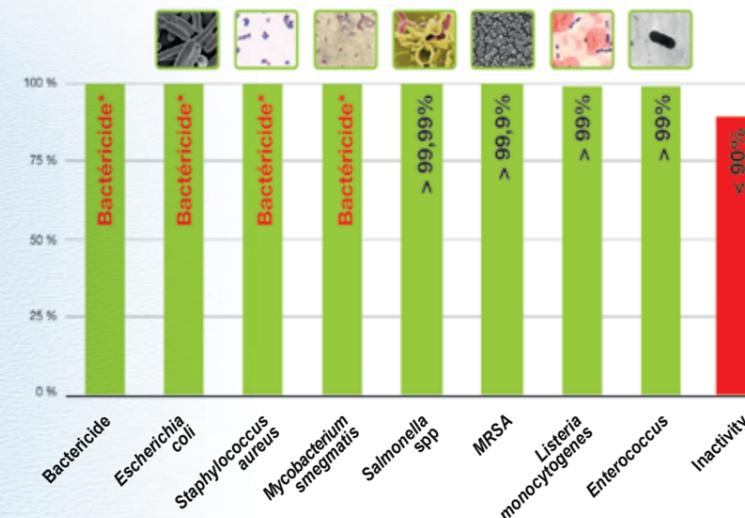


Nosoco.Tech is an independent research institution in Lyon, specialised in the investigation of antimicrobial surface properties of materials and textiles.



Measures the antibacterial activity of plastic surfaces.

Laboratory studies by Nosoco.Tech



Classification of bactericide

ISO 22196 determines the bactericidal activity of a plastic surface by applying the following formula:

$$\text{Bactericidal activity} = \log \text{ bacteria on control surface} - \log \text{ bacteria on treated surface}$$

According to EN 1040 a surface is:

bactericide: when its bactericidal activity is 5 or higher which translates to 100.000 times fewer bacteria on the treated surface than on the inactive control surface.

bacteriostatic: when its bactericidal activity is between 5 and 1 (100.000 to 10 times fewer bacteria)

inactive: when its bactericidal activity is lower than 1.

SOURCE: ISO 22196, EN1040

Please consult page 17-19 for complete product test reports and product certifications.

Don't give bacteria a chance!

Nosocomial infection [*nos-ob-kob-mi-al*], also known as a hospital-acquired infection or HAI, is an infection whose development is favoured by a hospital environment, such as one acquired by a patient during a hospital visit [...] and may be aggravated by the reduced resistance of individual patients.

SOURCE: Wikipedia



The only wall protection system that is truly bactericide.

Just in Europe alone nosocomial infections are estimated to be directly responsible for over 30.000 deaths per year.

Even though regulatory authorities have gone through great lengths to establish protocols and safety measures that prevent the spread of bacteria in healthcare and sanitary environments (such as hand disinfection, sterile clothing, strict cleaning procedures, etc.), nosocomial infections and food poisoning are responsible in Europe for over 30.000 deaths per year alone.



This fact and our commitment to provide innovative products to the healthcare sector have led CS France to develop materials that actively inhibit the growth and propagation of microbes in order to help fight the risk of "contact" infection.



Acrovyn® Bactericide is the result of our year-long investigations, a novel material that is truly bactericide.

Laboratory tests have shown that its special composition not only stops completely the growth and propagation of bacteria settled on its surface but also efficiently kills them within a 24 hours cycle. In other words, Acrovyn® Bactericide relentlessly kills bacteria just through "touch" while being completely innocuous to the human.

Some might call it a miracle, we just call it Acrovyn® Bactericide.

Handrail MCE 40/45

What is more being touched than a handrail?

Handrails are contact surfaces and can act as an important transmission vector for microbes. The handrail MCE 40/45 with Acrovyn® Bactericide provides an efficient barrier to keep nosocomial infections at bay.

Available in 30 colours.



Wall protection sheets 2 mm textured or smooth

Keep your walls protected and free of bacteria.

Textured sheets are available in 7 standard colours, smooth sheets in white.



Applications



Healthcare

The application of Acrovyn® Bactericide for wall cladding in operating theatres as well as for wall protection and handrails in all other hospital areas significantly helps to fight the risk of nosocomial infections.

Acrovyn® Bactericide is ideal for:

- Hospitals
- Intensive Care Units (ICUs)
- Ambulatories
- Clinical Surgeries
- Neonatal Units
- Medical Centres
- Elderly Residences
- Nursery Schools



Food Industry

In many food manufacturing and processing plants strict sterile conditions are a must. There is just no other wall covering material than Acrovyn® Bactericide that better helps to achieve this goal.

Acrovyn® Bactericide is ideal for use in:

- Food manufacturing facilities
- Food processing plants
- Fish and livestock farms
- Food storage facilities
- Dairies



Pharmaceutical Industry

Bactericide conditions are crucial in many parts of the pharmaceutical industry making Acrovyn® Bactericide the prime choice for wall cladding and work surfaces.

- Laboratories
- Animal facilities
- Pharmaceutical plants

“ An authentic breakthrough in the fight against microbial infections. ”

Please consult page 17-19 for complete product test reports and product certifications.

Acrovyn®Bactericide is bactericide and so much more.



Acrovyn®
Bactericide

Yes, Acrovyn®Bactericide is truly bactericide. But it also offers unrivalled protection against impacts and a battery of other advantages while seducing the eye and architect with good looks and flexibility of use.

With Acrovyn®Bactericide there are no compromises and you settle with nothing less but the best and most comprehensive wall protection system available on the market.



Thorough tests of our material following the European ISO norm 22196 have shown that its special composition efficiently kills bacteria, proofing to be truly bactericide for *Staphylococcus Aureus*, *Escherichia Coli* and *Mycobacterium smegmatis*.

But that's just the beginning of Acrovyn®Bactericide's unsurpassed functionality.

Its extraordinary resistance to impact allows to deflect a rolling load of 250 kg impacting at 5 km/h without suffering any damage, making its application ideal for wall and door protection of busy healthcare centres.

Add on top fire rating B-s2, d0, resistance to chemical agents, environmentally friendly RoHS compliant manufacturing, UV stability, ease of cleaning as certified by the Louis Pasteur Institute and 30 standard colours (handrail MCE 40/45).

In short, a system that protects people, walls, doors and pleases the eye, too.



“The wall protection every operating theatre has been waiting for.”

Impact of nosocomial infections
[...]Nosocomial infections are also one of the leading causes of death (5). The economic costs are considerable (6,7). The increased length of stay for infected patients is the greatest contributor to cost (8,9,10)[...]
SOURCE: WORLD HEALTH ORGANISATION



30 contemporary colours

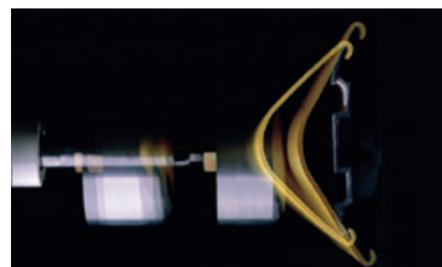
Acrovyn®Bactericide is available in 30 trend setting, contemporary colours to blend harmoniously into any interior design, set stylish accents or form colourful combinations.

Did you ever associate bactericide with boring?



UV stability

Acrovyn®Bactericide has an absolute stability to U.V. and other interior lighting sources.



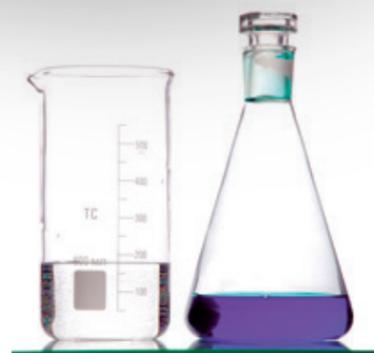
Impact resistance

Acrovyn®Bactericide possesses excellent shock absorbency properties. It doesn't crack, chip, flake or crumble. It deforms under impact and recovers immediately to its initial shape and appearance.



Fire rating

Acrovyn®Bactericide is manufactured with auto-extinguishing materials and has been certified with the fire rating class M1 and B-s2, d0.



Chemical resistance

Acrovyn®Bactericide has been formulated to resist most commonly used acids as well as mineral and vegetable oils, detergents, saline solutions, alcohols, gasoline, aliphatic hydrocarbons and concentrated fatty acids.

Complete chemical resistance test data sheets are available upon request.

Environmentally friendly RoHS

Even though the European RoHS norm only applies to electrical equipment we wanted to be the first company to adopt the RoHS norm to the manufacturing process of our entire range of Acrovyn® wall protection products.

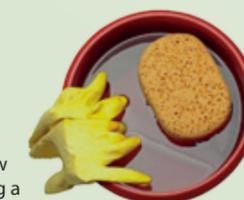


Recycling

All our Acrovyn® wall protection products are inert, non contaminant and fully recyclable.

Ease of maintenance

Thanks to its dyed through colours Acrovyn®Bactericide never wears off no matter how often you clean it, maintaining a brand new appearance for years.



Its non porous surface allows for easy cleaning with all of the most commonly available detergents.

Laboratory tests performed by the renowned Louis Pasteur Institute in Strasbourg scientifically certified the disinfectability and cleaning of our wall protection sheets.

Please find complete product test reports and all product certifications on page 17-19.

There are many options for wall cladding but only one is bactericide.



Wall cladding material	Bacterial activity
Stone - granite - marble	inactive
Ceramic tiles	inactive
Vinyl covering	inactive
Stainless steel	very little active
Fibre glass	inactive
Laminated panels	very little active
Wood	inactive
CS Acrovyn®	bacteriostatic
Acrovyn® Bactericide	bactericide

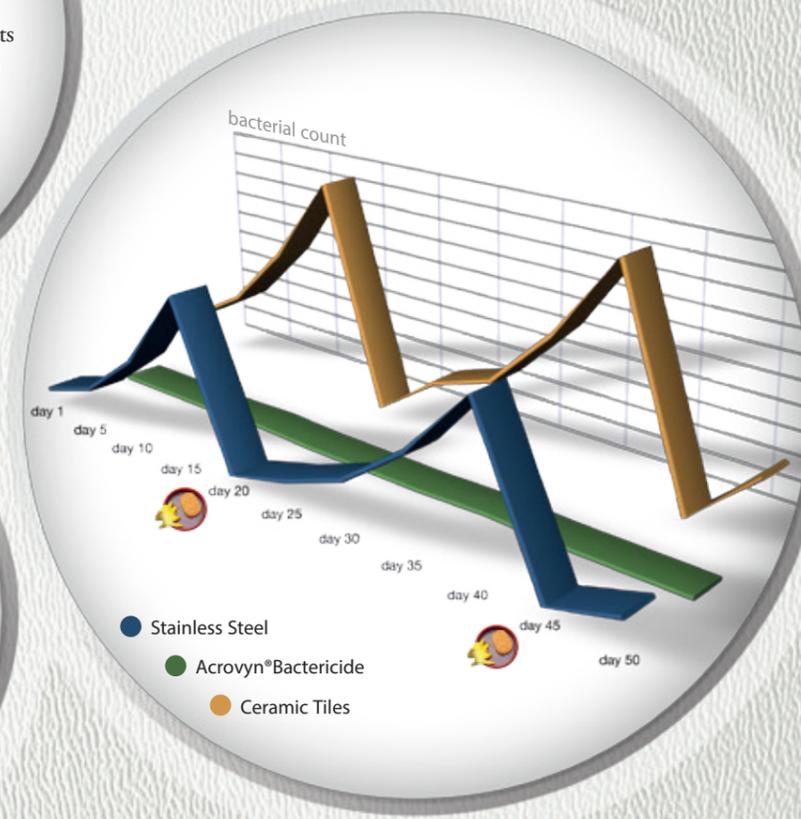
Please consult page 19 for a detailed definition of the terms inactive, bacteriostatic and bactericide.



What happens between cleaning intervals? With Acrovyn® Bactericide absolutely nothing.

Between cleaning intervals other wall cladding and protection materials soar in its bacterial count. Only Acrovyn® Bactericide stays at a constant low, so low in fact that it has been classified as bactericide after thorough research by the independent laboratory Nosoco.Tech.

“ Acts like a bactericidal cleaning agent but without the chemistry ”



Please find complete product test reports and all product certifications on page 17-19.

you are entering a
STERILE AREA
only sterilized clothing beyond this point

Acrovyn®Bactericide protects your walls where it really matters.

Only Acrovyn®Bactericide protects efficiently your walls and patients.

Important safety measures are taken and resources used to keep operation theatres, ICUs and other sensitive sanitary areas as clean and sterile as possible.

Acrovyn®Bactericide greatly contributes to this goal by virtually “sterilizing” itself, keeping its surface free from microbes at all times. This unique feature makes its application ideal for wall cladding in areas with strict hygienic conditions.

But the extraordinary resistance of Acrovyn®Bactericide also keeps your walls safe from harm. It can absorb the impact of an rolling object of 250 kg, such as a wheeled hospital bed, hitting into the wall at 5km/h without suffering the slightest scratch.

Definition of bactericide

The bactericidal activity of a surface is calculated by applying the following formula:

$$\text{Bactericidal activity} = \log \text{ bacteria on control surface} - \log \text{ bacteria on treated surface}$$

According to EN 1040 a surface can be considered:

bactericide: when its bactericidal activity is 5 or higher which translates to 100.000 times fewer bacteria on the treated surface than on the inactive control surface.

bacteriostatic: when its bactericidal activity is between 5 and 1 (100.000 to 10 times fewer bacteria)

inactive: when its bactericidal activity is lower than 1.

SOURCE: EN 1040



Size

Acrovyn®Bactericide is available in sheets of 3.000 x 1.300 mm in size, with a thickness of 2 mm.

Upon request sheets can be delivered cut to any custom size.

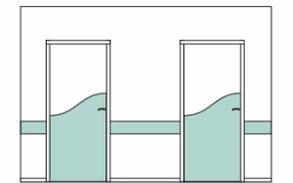
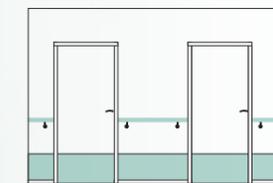
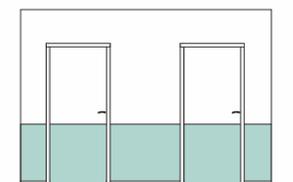
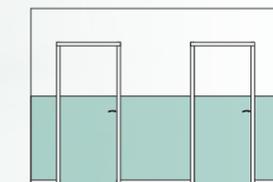
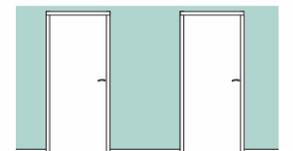
Finish

Acrovyn®Bactericide is available with a contemporary bebblette texture or an especially hygienic smooth finish.



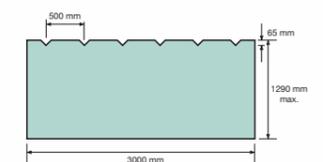
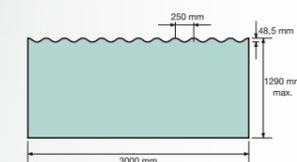
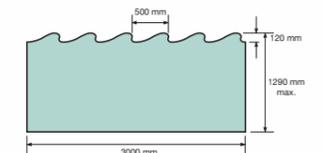
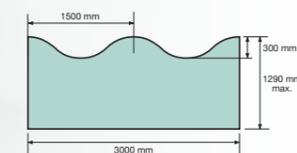
Application

Acrovyn®Bactericide sheets can be used for full height wall cladding or as wall or door protection with custom heights.



Decorative cutting

Acrovyn®Bactericide sheets can be delivered with our standard decorative edges or any custom design.



“Wall cladding that kills germs by itself, great!”



Acrovyn®
Bactericide

7 sanitary colours

Textured Acrovyn®Bactericide is available in 6 colours, carefully chosen for its application in sanitary environments.

A smooth surface finish for maximum hygiene is available in white.



9003 | Snow White



933 | Mission white



100 | Eggshell



101 | French Cream



24 | Dove Grey



10 | Aigue Marine



11 | Aqua Blue



9003 | Snow White, smooth

*Do you think bactericide is meant to look boring?
Think again.*

Creating products with leading edge functionality and great looks has always been our top priority.



That's why we released Acrovyn®Bactericide in our full range of 30 contemporary colours, allowing the handrail to fit snugly into existing interior designs, set pleasing, colourful accents or being used as part of colour guiding schemes in large hospitals.

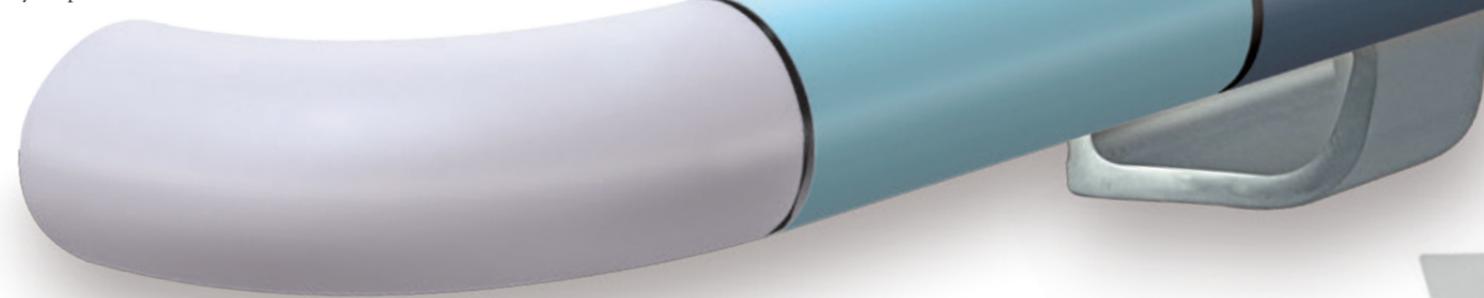
The smooth finish of the handrail provides a warm, comfortable but sure grip while Acrovyn®Bactericide keeps its surface free of germs even in busy hospital areas.

germicide, n. Anything that destroys germs (microorganisms); applied especially to agents that kill disease germs.

disinfectant, n. An agent that frees from infection; usually, a chemical agent which destroys disease germs or other harmful microorganisms.

SOURCE: AMERICAN JOURNAL OF PUBLIC HEALTH

“ A germ killing handrail in 30 fancy colours, you can hardly ask for more! ”



Choice of colours

With our extensive range of 30 standard colours you will always find a matching colour for your interior design.



MCE 40/45

The modular design of the MCE handrail provides connecting components, corner unions and wall mounting brackets allowing to built continuous handrail systems that flow seamlessly around columns, angles and corners.

Its ergonomic design and its robust aluminium core structure offer a comfortable but sure grip to people with reduced mobility.

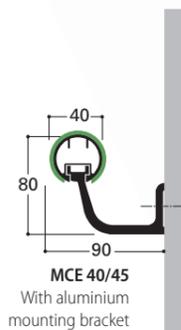
The smooth Acrovyn®Bactericide cover is extremely easy to clean and its bactericide action keeps the spread of microbes at bay.

System elements

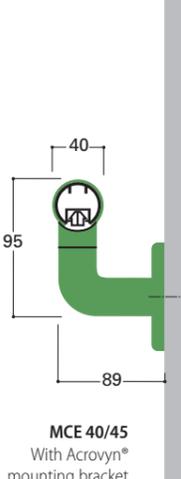
- Mounting brackets in aluminium or Acrovyn®
- Solid curved end caps and flat end caps
- Interior and exterior angles of 90° and 135°.
- Extension joint plates

Profile length

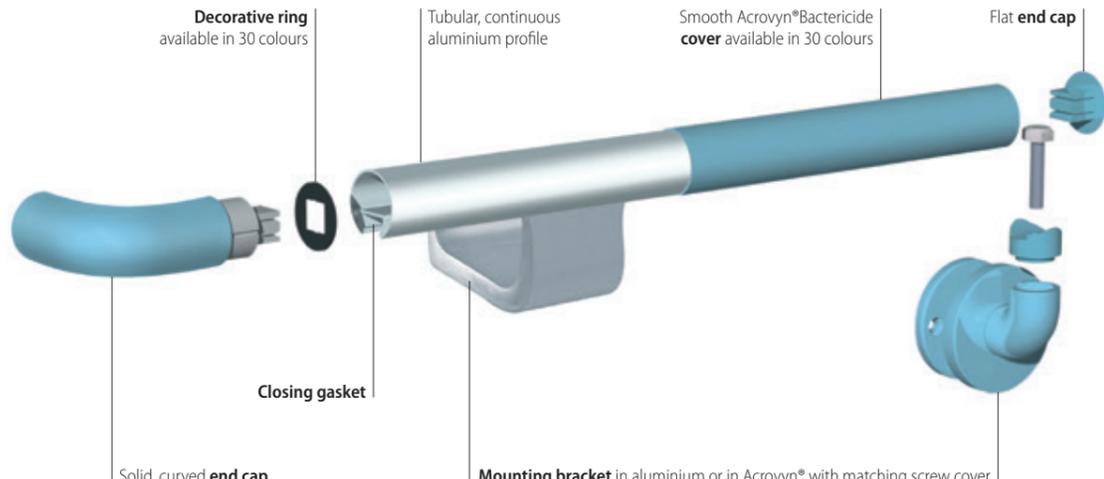
The profiles are available in 4 m length or cut to any custom size.



MCE 40/45 With aluminium mounting bracket



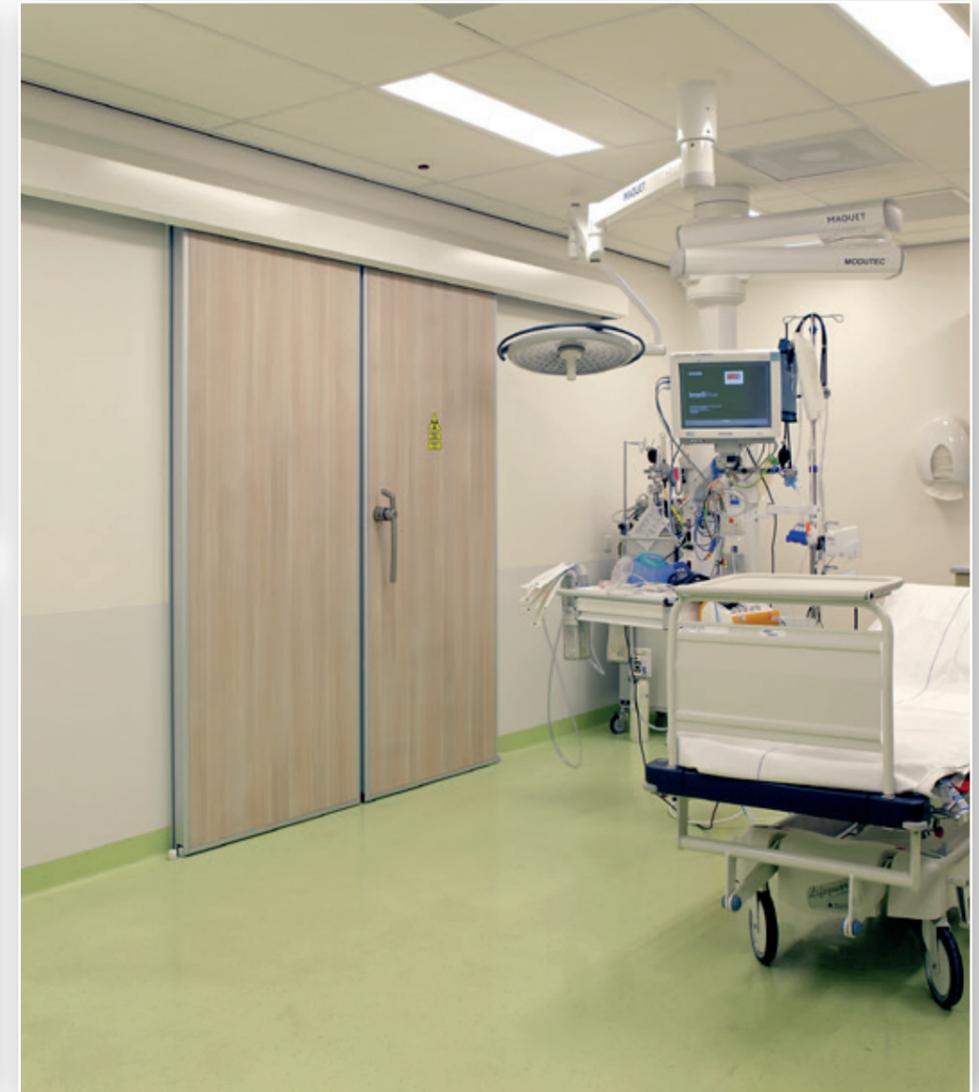
MCE 40/45 With Acrovyn® mounting bracket



Fire rating B-s2, d0

Acrovyn®Bactericide is manufactured with auto-extinguishing materials and has been certified with the fire rating classes B-s2, d0 and M1.

Application of Acrovyn® Bactericide



Acrovyn® Bactericide certifications

ISO Norm 22196 Certification

Laboratoire et correspondance :
 Nosoco - IFR, Faculté de Pharmacie - Laboratoire de Microbiologie
 8, avenue Bucheister - 69773 Lyon cedex 08
 tél : 04 78 77 73 83 - http://www.nosoco.fr
 Affaires européennes : 24 rue Auguste Sainders B-1030 Bruxelles
 Société accréditée Cofrac Impôts Recherche



Lyon, March 28, 2012

CS France
 135 rue E. Izbahad
 27120 Pacy sur Eure
 France

Final report of the tests realized for the CS France Company
 Tested surface: "Acrovyn"

The antibacterial properties of the surface "Acrovyn" were tested by means of the simplified method ISO 22196 (this screening method allows to test 2 specimens instead of 3).

1*) Description of the method

This method involves in contacting a treated surface (40 mm x 40 mm) with 0,4 mL of a standardized bacterial inoculum containing $6 \cdot 10^7$ bacteria/mL. i.e. $2,4 \cdot 10^7$ bacteria (5,4 log). After 24 hours of incubation at 35°C in a wet atmosphere, bacteria are counted and their number is compared with that of bacteria numbered on a control not active surface contaminated and incubated in the same conditions. The activity is calculated by the difference between the common logarithms of the number of bacteria on the control surface and that of bacteria on the active surface. The more this number is high, the more the activity is important.

Activity = log bacteria on control surface - log bacteria on treated surface

2*) Interpretation of the results

The standard ISO 22196 doesn't give interpretation of the results. If we refer to the interpretation of the standards used in the biocide products norms (EN 1040 for example), we can consider that a surface is bactericidal when she allows a development of less than 5 logarithms with regard to the control surface (this corresponds to 100 000 times fewer bacteria).

Société par Actions Simplifiée au capital de 30 000 euros - RCS La Pey en Velay 444 037 494
 siège social : ZA Les Bœufs F-43100 Lempdes sur Allagnon

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 Société accréditée Cofrac Impôts Recherche

Bactericidal activity =
 log bacteria on control surfaces - log bacteria on treated surface = 5

The surface is said bactericidal when it inhibits the bacterial development for values of the activity included between 5 (100 000 times less) and 1 (10 times less). For values lower than 1, the surface is said inactive.

3*) Results

Bacterial strain	Activity in log	Interpretation	111128 01	111128 03	111128 02	111128 04	111128 11	111128 06	111128 09	111128 07	111128 05
<i>Staphylococcus aureus</i>	5,1*	bactericidal									
<i>Escherichia coli</i>	5,4*	bactericidal									
<i>Mycobacterium smegmatis</i>	> 5	bactericidal									
<i>Salmonella Enteritidis</i>	4,1	bacteriostatic									
<i>S. aureus</i> MRSA	3,92	bacteriostatic									
<i>Listeria monocytogenes</i>	2,66	bacteriostatic									
<i>Enterococcus</i> sp.	2,28	bacteriostatic									

* average of several tests

We can also express the results in inhibition percentage of the bacterial growth on the active surface according to the growth on the control surface.

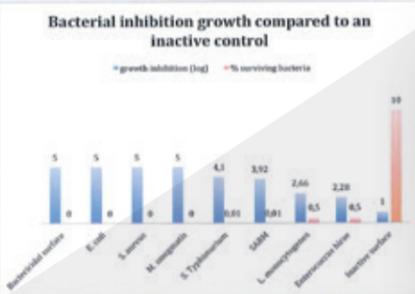
Bacterial strain	Activity (in log)	Inhibition %	survival %
<i>Staphylococcus aureus</i>	5,1*	bactericidal	0
<i>Escherichia coli</i>	5,4*	bactericidal	0
<i>Mycobacterium smegmatis</i>	> 5	bactericide	0
<i>Salmonella</i>	4,1	99,99	0,01
<i>Typiliumum</i>			
<i>S. aureus</i> MRSA	3,92	99,99	0,01
<i>Listeria monocytogenes</i>	2,66	99,5	0,5
<i>Enterococcus</i> sp.	2,28	99,5	0,5

The following graph represents, in blue, the inhibition percentage of the growth on the active surface compared with that on the control, and in red the percentage of surviving bacteria. The first column in blue corresponds to the definition of the bactericidal (reduction of 5 logarithms) and the last one (in red) corresponds to the definition of the inactivity with less of 1 logarithm of activity and 10% of surviving bacteria.

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Bacterial inhibition growth compared to an inactive control



4*) Conclusions

"Acrovyn" surface, tested in 24 hours at 35°C by the standard ISO 22196, presented an excellent activity against the recommended bacteria representing generally the bacterial world, *Staphylococcus aureus* (positive Gram) and *Escherichia coli* (negative Gram). It allowed a 5 logarithms reduction of the bacterial population compared to an inactive surface. The activity was also excellent (bactericidal) against *Mycobacterium smegmatis* (similar to the tubercular bacterium). The activities against important bacteria in food bacteriology: *Salmonella* Enteritidis and *Listeria monocytogenes*, respectively 4.1 and 2.66 were bacteriostatic. It is the same results for the resistant hospital bacteria as, MRSA and *Enterococcus* sp. which activities were respectively 3.92 and 2.28.

François Renaud scientific counsellor

Société par Actions Simplifiée au capital de 30 000 euros - RCS La Pey en Velay 444 037 494
 siège social : ZA Les Bœufs F-43100 Lempdes sur Allagnon

4*) Conclusions

"Acrovyn" surface, tested in 24 hours at 35°C by the standard ISO 22196, presented an excellent activity against the recommended bacteria representing generally the bacterial world, *Staphylococcus aureus* (positive Gram) and *Escherichia coli* (negative Gram). It allowed a 5 logarithms reduction of the bacterial population compared to an inactive surface. The activity was also excellent (bactericidal) against *Mycobacterium smegmatis* (similar to the tubercular bacterium). The activities against important bacteria in food bacteriology: *Salmonella* Enteritidis and *Listeria monocytogenes*, respectively 4.1 and 2.66 were bacteriostatic. It is the same results for the resistant hospital bacteria as, MRSA and *Enterococcus* sp. which activities were respectively 3.92 and 2.28.

Certificates

Copies of all certificates are available upon request. Please contact with your local CS France distributor for more information.

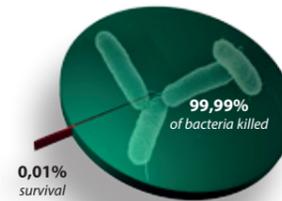
Classification according EN 1040

Escherichia Coli



Activity in log: 5,4 log
 Inhibition: 100%
 Survival: 0%
 Classification: **Bactericidal**

Salmonella Enteritidis



0,01% survival

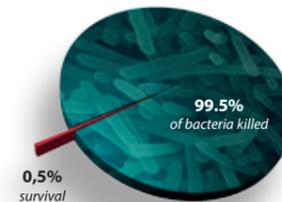
Activity in log: 4,1 log
 Inhibition: 99,99%
 Survival: 0.01%
 Classification: **Bacteriostatic**

Staphylococcus aureus



Activity in log: 5,1 log
 Inhibition: 100%
 Survival: 0%
 Classification: **Bactericidal**

Listeria monocytogenes



0,5% survival

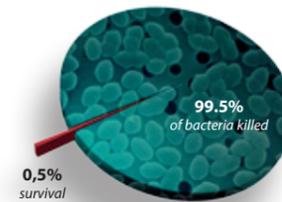
Activity in log: 2,66 log
 Inhibition: 99,5%
 Survival: 0,5%
 Classification: **Bacteriostatic**

Mycobacterium smegmatis



Activity in log: >5 log
 Inhibition: 100%
 Survival: 0%
 Classification: **Bactericidal**

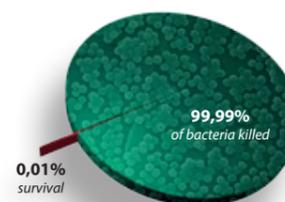
Enterococcus sp.



0,5% survival

Activity in log: 2,28 log
 Inhibition: 99,5%
 Survival: 0,5%
 Classification: **Bacteriostatic**

SARM



0,01% survival

Activity in log: 3,92 log
 Inhibition: 99,99%
 Survival: 0,01%
 Classification: **Bacteriostatic**

Interpretation of ISO 22196 test results

The norm ISO 22196 describes a standard method for measuring the bactericidal properties of plastic surfaces but does not offer any interpretation of the results.

Biocide product norms such as EN 1040 can be used to interpret the bactericidal activity determined by ISO 22196:

bactericide: 5 or higher
bacteriostatic: between 5 and 1
inactive: lower than 1

Hot steam cleaning

Sanivap France

ATTESTATION DE CONFORMITE

CS FRANCE et SANIVAP® attestent que les appareils SANIVAP® ont été testés sur les produits Acrovyn® développés et fabriqués par la société CS FRANCE.

Elle valide la compatibilité et l'application de ces produits dans les conditions d'usage pré-définies pour les accessoires EN110, EN120 et EN150 sur les revêtements compatibles de type Acrovyn®.

Produits: Acrovyn® CS FRANCE, Acrovyn® CS FRANCE, Acrovyn® CS FRANCE, Acrovyn® CS FRANCE

Passer sur la surface: Acrovyn® CS FRANCE, Acrovyn® CS FRANCE, Acrovyn® CS FRANCE, Acrovyn® CS FRANCE

Noté par SANIVAP®

Noté par SANIVAP®

Noté par SANIVAP®

Suitability for hot steam cleaning at 150° C / 5 bar

Sanivap, manufacturer of steam and vapour cleaning equipment, certified Acrovyn® Bactericide wall protection sheets to be suitable for cleaning procedures with 150° C hot steam at 5 bar pressure.

Louis Pasteur University

Strasbourg, le 10 Janvier 09

Institut d'Hygiène et de médecine préventive

ULP

ETUDE : Biofilm 03-0012

Etude de l'activité détergente de détergents-désinfectants à usage hospitalier sur les surfaces Acrovyn® en présence d'ulcères.

Rapport rédigé par : N. HENNON LOUILLI
 Pharmacien

Approuvé par : D. MEUNIER
 Praticien Hospitalier

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Cleaning effectivity of disinfectant and cleaning agents on Acrovyn surfaces in hospital environments.

Laboratory tests performed by the renowned Louis Pasteur Institute in Strasbourg certified a high degree of cleaning effectivity of cleaning and disinfectant agents on our wall protection sheets in hospital environments.

International sales office



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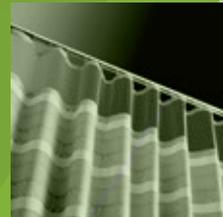
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