



ANTI MICROB TAPE

TECHNICAL DATA SHEET
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Product description

AS-100 Anti Microb Tape has been designed to kill microorganisms quickly and permanently from frequently touched surfaces in public and work spaces. This invention is unique in the world and has a highly effective antimicrobial function (up to 99,9%).

The antimicrobial effect is possible due to the special coating equipped with photosensitisers. Activated by ambient light, photosensitisers **transform energy to oxygen in the air and create the protective anti-pathogenic barrier** on the treated surface. The active oxygen in contact with microorganisms causes damage to cell membrane and DNA of microorganisms. The technology based on photosensitisers is non-toxic and achieves germs reduction based on natural ingredients, safe for adults and children.

The efficacy of AS-100 Tape has been tested and confirmed (in internal tests or by independent laboratories) on such microorganisms as:

-  Staphylococcus aureus
-  Acinetobacter baumannii
-  Candida albicans

-  E. coli
-  Enterococcus faecium
-  TGEV - Coronavirus (in progress)



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Application

AS-100 Anti Microb Tape has a wide range of applications and is especially recommended to eliminate bacteria, viruses, spores and fungi which are commonly present on door handles, handrails, elevator buttons in hospitals, schools, hotels, shops, gyms or means of public transport, as an example. It provides extra support to standard hygiene procedures.

AS-100 Anti Microb Tape is especially beneficial in places where traditional disinfection methods are not effective due to the high intensity of users and the short-term effect just right after application. On surfaces covered with AS-100 Tape, pathogens are constantly and permanently destroyed due to the process of photodynamics.

Instruction of use

- AS-100 should be applied on a previously cleaned and degreased surface.
- Depending on the treated surface when removing AS-100 after a long period of time, the product may leave glue residues (i.e. on stainless steel) - it can be easily cleaned with alcohol solution.
- If dirty, AS-100 should be cleaned with a damp, soft cloth. Do not clean with alcohol.
- Contact with strong alcohol may result in damaging the AS-100 surface.
- Avoid direct, long-term exposure of AS-100 to UV radiation.
- AS-100 does not replace hands disinfection and standard hygiene rules.

Packing and storage

Product code	Dimension	Box size	Weight
AS-100/roll	100mm x 5m roll	94 x 94 x 102mm	220g
AS-100/sheet	100mm x 200mm sheets (10pcs per box)	102 x 230 x 6mm	90g

Keep the unused part of AS-100 in the originally supplied box, protected against ambient light with a light blocking cover, in dark, at temperature of 15-25°C. The shelf life of AS-100 is minimum 3 years.



Physical and chemical properties

Parameter	Result
Operating temperature	-20°C to 80°C
Application temperature	min. +10°C
Thickness	110 micrometers (without protective paper)
Surface preparation	Yes
Service lifetime	Indoor - minimum 1 year / Outdoor - 3 months
UV resistance	Limited UV resistance (strong UV exposure shortens the lifetime of the product)
Chemical resistance	Resistant to mild detergents, not resistant to strong alcohol solutions, acids and alkalis
Adhesive	Solvent polyacrylate, permanent
Adhesive strenght	(Finat I): 14 ± 6 N/25mm

Safety instruction

- The product is not suitable for consumption. If swallowed, consult a doctor immediately.
- The product must not be used in toys and childcare articles that a child can take to mouth.
- The product may only be used in contact with non-fat food.
- The product must not be used in contact with infant formulas and follow-on formula (Directive 2006/141 / EC) or processed food based on cereals and food for infants and young children (Directive 2006/125 / EC).