



CORONAVIRUS ERADICATION

PROVEN, TESTED & CERTIFIED

PUREZONE FILM

CERTIFIED AND PROVEN TO EXTINGUISH COVID-19



ARMARK PUREZONE FILM

PRODUCT SPECIFICATION SHEET



FAST

**RAPID ERADICATION
OF VIRUSES & BACTERIA**



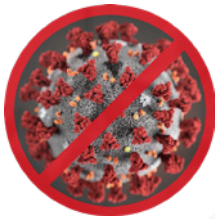
PERMANENT

**ACTIVE EVEN AT VERY
LOW CONCENTRATIONS**

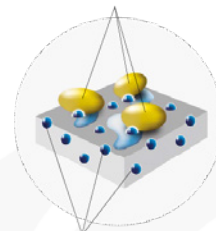


PROLONGED

**24H A DAY - 7 DAYS
A WEEK FOR 3 YEARS**



BACTERIA AND VIRUSES



SILVER IONS (Ag+)



ISO 21702 CERTIFIED TESTS - JULY 2020:



ARMADILLO PUREZONE FILMS COMBATS:

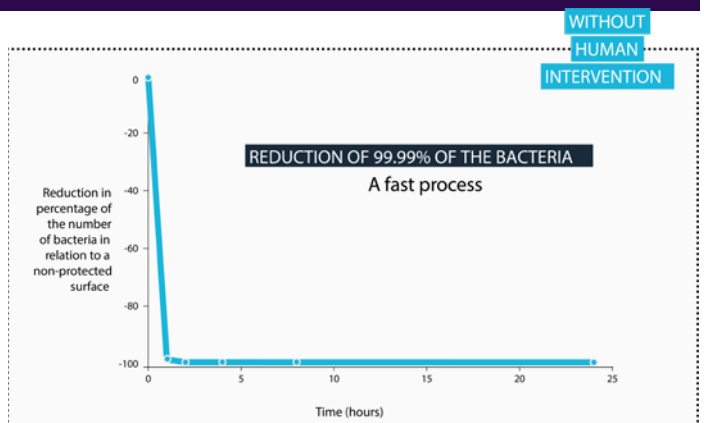
- **CORONAVIRUS** 94.55% in 15 minutes / 99.87% in 60 minutes
- **99.99% bacteria** in accordance with **ISO 22196**, inclusive of :
 - *Salmonella*
 - *Listeria*
 - *Strapholococcus*
 - *Escherichia*
 - *MRSA*
 - *P. aeruginosa*



FEATURES:

**ARMADILLO PUREZONE FILM
FOR USE ON ANY POINT OF CONTACT SURFACE.
SUITABLE FOR ANY CHALLENGING ENVIRONMENT.**

- *Protects 24h a day, 7 days a week*
- *Protects inaccessible areas*
- *Prevents the development of 99.99% of the germs tested (tests in conformity with the ISO 22196 standard)*
- *Reduces a bacterial population by 4 logs*
- *Prevents the formation of biofilm*
- *Active for 3 years*
- *Perfectly ecological*
- *No nanoparticles*

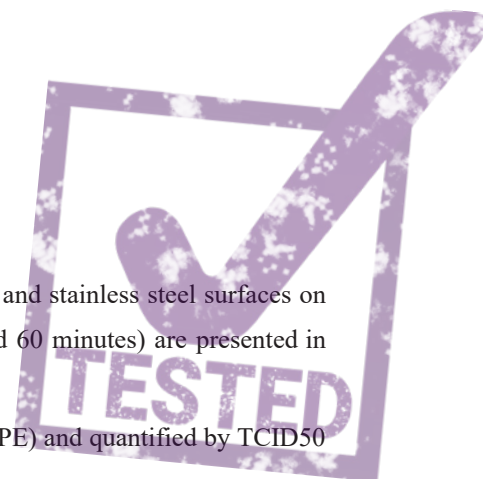


CERTIFICATE:



Raw data for antiviral activity of PUREZONE/PRZ150/PURECOVER and stainless steel surfaces on human coronavirus HCoV-229E under test conditions (20°C, 5, 15 and 60 minutes) are presented in appendices

Results have been determined by visual reading of cytopathic effects (CPE) and quantified by TCID50 technique on MRC5 cells.



Surface	Cytotoxicity (log10 TCID50)	Support	T0 (log10 TCID50)	T15 (log10 TCID50)	T60 (log10 TCID50)
PUREZONE/ PRZ150/PURECOVER	0.5	S1	5	3,5	2,1
		S2	5,1	4	2,4
		S3	5,1	4,1	2,4
		Average N1	5,1	3,9	2,3
		SD	0,1	0,3	0,1
stainless steel	0.5	S1	5	5	5,1
		S2	5,3	5,3	5,3
		S3	5	5,3	5,1
		Average N2	5,1	5,2	5,2
		SD	0,1	0,1	0,1
		Reduction D1 (log10 DICT50) *	/	1,3	2,9

N1: viral quantity in log 10 (average of triplicate) PUREZONE/PRZ150/PURECOVER surface

N2: viral quantity in log10 (average of triplicate) stainless steel surface

* D: antiviral activity for every contact time (logarithmic reduction in log10) for 1 cm² of test surface

D1=N1-N2

V. CONCLUSION

PUREZONE/PRZ150/PURECOVER surface shows antiviral activity of 94.99% (1.3 log₁₀ TCID50) and 99.87% (2.90 log₁₀ TCID50) on human coronavirus HCoV-229E after a contact time of 15 and 60 minutes respectively at 20°C.

TEST RESULTS:

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2007 + A1:2018

1. Product Details

PRODUCT NAME:	Armark Purezone
MANUFACTURER:	ArmadilloUVC
COMPOSITION:	Self-adhesive film made of: -acrylic adhesive -PVC film
THICKNESS:	0.105 mm
MASS PER UNIT AREA:	0.120 kg/m ²
COLOUR:	Transparent

2. Test Results

TEST METHOD:	PARAMETER:	RESULTS:
EN 13823 : 2020	FIGRA 0,2 MJ (W/s)	COMPLIANT
	FIGRA 0,4 MJ (W/s)	
	THR 600 s (MJ)	
EN ISO 11925-2 : 2020	LFS	COMPLIANT
	Flaming droplets or particles	
	Fs	
	Filter paper	COMPLIANT

3. Classification

3.1. This classification has been carried out in accordance with **EN 13501-1:2007 + A1:2009**.

3.2. The product, **ARMARK PUREZONE**, in relation to its reaction to fire behaviour is classified: **B**

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets / particles is: **d0**

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

FIRE BEHAVIOUR		SMOKE PRODUCTION			FLAMING DROPLETS	
B	-	s	1	,	d	0

REACTION TO FIRE CLASSIFICATION: B-s1, d0

4. European Standard

European Standard EN13501-1 provides the reaction to fire classification procedure for all products and building elements. According to this Standard, reaction to fire is the response of a product in contributing by its own decomposition to a fire to which it is exposed, under specified conditions (not to be confused with the fire resistance). Construction products are classified according to harmonised test methods in Euroclasses A1, A2, B, C, D and F. Products classified in a given class are deemed to satisfy all the requirements of any lower class. Products classified in A1 and A2 classes are non-combustible (cement, concrete, minerals, glass, fiberglass, rock wool, ceramic etc.) Materials certified from B to F are combustible in ascending order.

DEFINITION	CONSTRUCTION PRODUCTS		
Non-combustible materials	A1		
	A2 - s1 d0	A2 - s1 d1	A2 - s1 d2
	A2 - s2 d0	A2 - s2 d1	A2 - s2 d2
	A2 - s3 d0	A2 - s3 d1	A2 - s3 d2
Combustible materials Very limited contribution to fire	B - s1 d0	B - s1 d1	B - s1 d2
	B - s2 d0	B - s2 d1	B - s2 d2
	B - s3 d0	B - s3 d1	B - s3 d2
Combustible materials Limited contribution to fire	C - s1 d0	C - s1 d1	C - s1 d2
	C - s2 d0	C - s2 d1	C - s2 d2
	C - s3 d0	C - s3 d1	C - s3 d2
Combustible materials Medium contribution to fire	D - s1 d0	D - s1 d1	D - s1 d2
	D - s2 d0	D - s2 d1	D - s2 d2
	D - s3 d0	D - s3 d1	D - s3 d2
Combustible materials Highly contribution to fire	E / E-d2		
Combustible materials Easily flammable	F		

BEST CLASSIFICATION

All the materials classified A2, B, C, D obtain an additional classification regarding the emission of smoke and the production of flaming droplets and/or particles

-s" Smoke emission level: values range from 1 (absent/weak) to 3 (high)

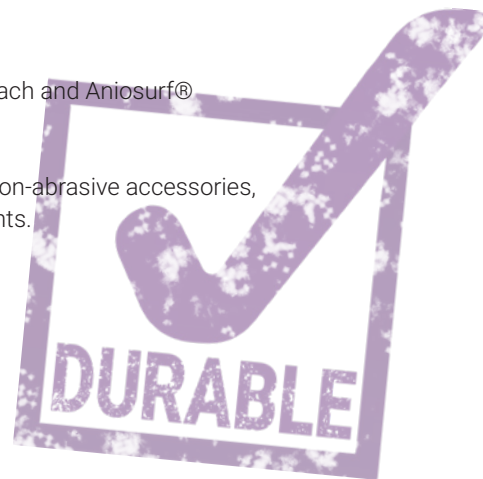
-d" flaming Droplets and/or particles production: values range from 0 (absent) to 2 (high)

ADDITIONAL CLASS		LEVEL DEFINITION
SMOKE EMISSION DURING COMBUSTION	s	1 quantity / speed of emission absent or weak
		2 quantity / speed of emission absent of average intensity
		3 quantity / speed of emission absent of high intensity
PRODUCTION OF FLAMING DROPLETS / PARTICLES DURING COMBUSTION	d	0 no dripping
		1 slow dripping
		2 high dripping

FEATURES:

VERTICAL INDOOR EXPOSURE UP TO 5 YEARS

- Antimicrobial activity maintained after **365 cleans** with water, alcohol, chlorine bleach and Aniosurf® (follow cleaning dilution recommended by the manufacturer's guidelines).
- The film can be cleaned/disinfected by all conventional cleaning methods, using non-abrasive accessories, cleaning products, detergents or products currently used in healthcare environments.
- Suitable for application to regular or irregular surfaces.
- Solvent-based acrylic adhesive, immediate and permanent adhesion.
- Operating temperature range: from **-40 °C to +90 °C (-40 °F to +194 °F)**.
- Silver Ions embedded within film (not a coating)



TECHNICAL DETAILS:

	INDICATIVE VALUE
THICKNESS (µm):	60
	AVERAGE VALUES
TENSILE STRENGTH (N/25 mm):	MIN. 15
ELONGATION AT BREAK (%):	MIN. 100
SHRINKAGE 168 HOURS AT 70 °C (158 °F) (mm):	< 0.8

LINER:

- Silicone-coated PE paper
- Stable under hygrometric variations.

FINISHES AVAILABLE:

- *Clear, Matt, Leather, Woodgrain*

ADHESIVE PROPERTIES:

PEEL STRENGTH TEST 180° ON GLASS (N/25mm):	AVERAGE VALUES
AFTER 20 MINUTES OF APPLICATION	15
AFTER 24 HOURS OF APPLICATION	17
INITIAL TACK (N/25mm)	20
Release (N/25 mm):	0.5
Resistance to solvents: the adhesive is resistant to most chemicals (alcohol, diluted acids, oils).	

Under normal usage conditions, harmless when in contact with human skin.
(skin compatibility study carried out under dermatological control).

No allergenic potential.

No irritant potential.

Full contact adhesive.

Active compound: silver ions, < 0.3 % w/w of the entire product.

