

# SANITIZER LACQUERS CHIMIVER



Natural protection against germs and bacteria  
for the good of your environment



**Chimiver**<sup>®</sup>  
"Your floors partner"  


# Revolution? Discovery?



**N**ot a revolution, not a discovery, just a reproposal of what **Chimiver** presented to the wood flooring and resin flooring market in 2010: **antibacterial paints with silver ions**. By nature we always try to make innovative proposals which are able to anticipate market demands making them available to our customers.

The entire range of paints is additivated with special ionized silver nanoparticles, which maintain their characteristics unchanged when passing from a liquid to a solid phase and chemically bonding to the paint molecules.

The film of paint also acts as a mechanical barrier that provides a sanitizing action, preventing the proliferation of germs and bacteria that it comes in contact with and whose durability is guaranteed until the paint layer is completely worn.

Thanks to the chemical/physical performance of **Chimiver** parquet varnishes, certified by the best laboratories, we are able to ensure durability over time in both private and public spaces where a higher level of hygiene standard is required.

## History and medical uses of silver

The Sumerians discovered silver three thousand years before Christ and developed, already at that time, techniques for extracting, refining and processing it to create ornaments and vases to transport and preserve water and wine.

In medicine silver is added in creams and as an antibiotic coating on medical devices. The silver ion is bio-active and kills bacteria rapidly, showing low toxicity in the human body. If ingested or inhaled the risks are minimal and it's also safe if in contact with food.

*“Health is the first duty in life”*

Oscar Wilde



Ag+

Ag+

Ag+

Ag+

Ag+



# FINITURA UW S49 AB

## Water-based UV lacquer for prefinished wooden floors

Special sanitizing coating formulated with special UV curing resins. Recommended for residential use, particularly in public buildings (medical, offices, etc.).

**How to use:** water-based lacquer suitable for application by curtain coaters and/or facility manual automatic spraying equipment, and to be crosslinked under high-pressure UV lamps, after the times given in Flash-Off. The plants and all their components should be suitable for use of water-based products, it's necessary to prevent corrosion of the plants with subsequent pollution of the product. Applied in two coats or is used as the finish coat onto bocomponent primers and/o fillers UV. Must always be applied on surfaces sanded and appropriately prepared.

CATAS		CATEGORIA	
<b>RAPPORTO DI PROVA</b> <b>123577 / 1 S</b> Identificativo campione: 00-01-00 Data esecuzione prova: 10-10-10 Laboratorio: 1000-00 Indirizzo completo: TORRE D'ALICACCIA 46040			
<b>Materie plastiche. Determinazione dell'azione antibatterica ISO 22196:2007</b>			
Tipo di materiali sottoposto a prova Dimensione del campione Pellicola di copertura usata Materiale provato di controllo Ceppi batterici Volume dell'inoculo		non analizzato 50x50 mm polietilene, 40x40 mm, sp. 0.12 mm polietilene Escherichia coli DSM 1576 Staphylococcus aureus DSM 346 0,4 ml	
<b>Risultati con Escherichia coli</b> inoculo iniziale (cfu/ml) su provini di controllo (cfu/ml)		conta dopo 24 h su provini di controllo (cfu/ml) conta dopo 24 ore su provini trattati (cfu/ml)	
1,17x10 <sup>6</sup> ± 3,47x10 <sup>5</sup> log <sub>10</sub> CFU = 6,14		6,11x10 <sup>5</sup> ± 1,80 log <sub>10</sub> CFU = 5,79	
<b>Attività antibatterica =</b> $\log_{10}(\text{IC}_0/\text{IC}_t) \times 100 = 5,35$ <b>passi a una riduzione della carica batterica &gt; 3,00 (99,9%)</b>			
<b>Risultati con Staphylococcus aureus</b> inoculo iniziale (cfu/ml) su provini di controllo (cfu/ml)		conta dopo 24 h su provini di controllo (cfu/ml) conta dopo 24 ore su provini trattati (cfu/ml)	
2,54x10 <sup>6</sup> ± 6,14x10 <sup>5</sup> log <sub>10</sub> CFU = 6,80		6,23x10 <sup>5</sup> ± 1,80 log <sub>10</sub> CFU = 5,79	
<b>Attività antibatterica =</b> $\log_{10}(\text{IC}_0/\text{IC}_t) \times 100 = 7,71$ <b>passi a una riduzione della carica batterica &gt; 3,00 (99,9%)</b>			





# ECOCLASS A VELO Saniplus

## Water-based lacquer for prefinished wooden floors

Single-component water-based polyurethane lacquer formulated with special ionizing nanotechnological additives, whose paint film acts as a mechanical barrier that gives a sanitizing action. ECOCLASS A VELO Saniplus is recommended for residential use, particularly in public buildings (medical, offices, etc.). ECOCLASS A VELO Saniplus is a lacquer having high chemical and mechanical resistances.

**How to use:** suitable for applications by curtain coaters and/or manual-automatic spraying equipment. The plants and all their components should be suitable for use of water-based products, it's necessary to prevent corrosion of the plants with subsequent pollution of the product. Used as a finish coat in water-based cycles or on primers of other chemical nature. Make the preliminary tests to control the appearance, adhesion, etc.

CATAS		C.A.T.A.S. S.p.A.		Via Salaria, 211 - Roma	
RAPPORTO DI PROVA		124377 / 1		CHIMIVER S.P.A.	
Dimensioni campione: 40x40 mm		10-01-11		Via Salaria, 211 - Roma	
Materiale provato: ECOCLASS A VELO 40				Via Salaria, 211 - Roma	
<b>Materie plastiche. Determinazione dell'azione antibatterica ISO 22196:2007</b>					
Tipo di materiale sottoposto a prova		non analizzato			
Dimensioni del provino		50x50 mm			
Pellicola di copertura usata		polietilene, 40x40 mm, sp. 0,12 mm			
Materiale provato di controllo:		posizione			
Ceppi batterici:		Escherichia coli DSM 1576			
Volume dell'incubo:		Staphylococcus aureus DSM 345			
Volume dell'incubo:		0,4 ml			
<b>Analisi con Escherichia coli</b>					
Provino iniziale		conta subito dopo inoculo		conta dopo 24 ore	
CFU/ml		su provino di controllo		su provino trattato	
1,8x10 <sup>6</sup> mp/6		4,8x10 <sup>6</sup> mp/6		log <sub>10</sub> CFU=2,15	
		log <sub>10</sub> CFU=6,68		log <sub>10</sub> MP=-0,20	
Attività antibatterica-R= (St-Is)- (At-Is) = 4,43					
Isoli a una riduzione della carica batterica >99,99%					
<b>Analisi con Staphylococcus aureus</b>					
Provino iniziale		conta subito dopo inoculo		conta dopo 24 ore	
CFU/ml		su provino di controllo		su provino trattato	
2,1x10 <sup>6</sup> mp/5		5,2x10 <sup>6</sup> mp/5		log <sub>10</sub> CFU=1,58	
		log <sub>10</sub> CFU=6,72		log <sub>10</sub> MP=-0,20	
Attività antibatterica-R= (St-Is)- (At-Is) = 3,58					
Isoli a una riduzione della carica batterica dal 99,97%					








# UV OIL ONE 1317 Antibatterico

## UV lacquer oil-based for prefinished wooden floors

UV lacquer based on oil modified acrylate oligomers, suitable for prefinished wooden floors. Wooden floors treated with UV OIL ONE 1317 Antibatterico are characterized by excellent hardness, and good chemical/physical resistance. It gives the wood a warm and natural look.

**How to use:** UV OIL ONE 1317 Antibatterico is suitable for the roller coater application and is curable with high pressure UV lamps. UV OIL ONE 1317 Antibatterico is used as the first and finishing coat in lacquering cycles composed by 2/3 coats of the product itself. Must always be applied on surfaces sanded and appropriately prepared.

		Via S. Maria, 203 00187 Roma, Italia Tel. 06/49812111 Fax 06/49812112 E-mail: info@catas.it	Via S. Maria, 203 00187 Roma, Italia Tel. 06/49812111 Fax 06/49812112 E-mail: info@catas.it
<b>RAPPORTO DI PROVA</b> 175234 / 1			
Identificazione cliente: 175234 Esecuzione prova: 135214 Esamine richieste: 135214		CHIMIVER S.P.A. VIA S. MARIA, 203 ITALIA	
Determinazione dell'azione antimicrobica su plastiche e altri materiali non porosi. ISO 22196:2011			
Tipo di materiali sottoposti a prova: plastiche opache su legno			
Dimensione del provino: 100x100 mm		Spessore: 400 µm	
Metodo di applicazione: spray		Dimensione del rullo: 100 x 11 mm	
Copia testata (Data dell'analisi): 13/05/2014		Dimensione del rullo: 100 x 11 mm	
Luogo dell'analisi:		Spazio di lavoro: 100 x 11 mm	
Condizioni ambientali:			
Temperatura: 23 ± 0,5 °C		Umidità: 50 ± 2%	
Risultati con riferimento all'ISO 22196:2011			
Serie della prova: 135214		Serie della prova: 135214	
Numero della prova: 135214		Numero della prova: 135214	
Risultato: 135214		Risultato: 135214	
Risultati con riferimento all'ISO 22196:2011			
Serie della prova: 135214		Serie della prova: 135214	
Numero della prova: 135214		Numero della prova: 135214	
Risultato: 135214		Risultato: 135214	
Risultati con riferimento all'ISO 22196:2011			
La distribuzione e l'installazione del prodotto sono delegate dal cliente. CATAS non si avvale di un servizio di assistenza e vendita. I risultati sono validi solo per il prodotto e per il metodo di prova specificato. Per informazioni e per il servizio clienti, rivolgersi al numero verde 800 20 20 20.			





# ECOSTAR 2K Saniplus

## Two-component water-based polyurethane lacquer for wooden floors

Two-component water-based polyurethane lacquer formulated with special ionizing nanotechnological additives, whose film acts as a mechanical barrier that gives a sanitizing action. For this reason ECOSTAR 2K Saniplus is recommended for residential use, particularly in public buildings (medical, offices, etc). ECOSTAR 2K Saniplus is a lacquer having high chemical and mechanical resistances. Ideal even in the presence of pets.

**How to use:** catalysed according to the indicated ratio and mixed thoroughly, has to be applied to filled, sanded and vacuumed wooden floors. To guarantee a deep and long lasting efficacy, it is recommended to apply always 2 final coats of Ecostar 2k Saniplus.

CATA S.p.A.			
Via S. Felice 101 37019 S. Felice del Bresciano (VI) P. 0445 491111 www.cata.it		Via S. Felice 101 37019 S. Felice del Bresciano (VI) P. 0445 491111 www.cata.it	
<b>REPORT DI PROVA</b>			
<b>122240 / 1 S</b>		CATA S.p.A.	
Bisestivo campione: 08-11-05		CANTIERI RINNOVI S.P.A.	
Emissione prova: 08-11-05		CANTIERI RINNOVI S.P.A.	
Emissione report: 28-12-05		CANTIERI RINNOVI S.P.A.	
<b>Materie plastiche. Determinazione dell'azione antibatterica ISO 22196:2007</b>			
Tipo di materiale sottoposto a prova: non analizzato			
Dimensione dei provini: 50x50 mm			
Pelle di copertura usata: polietilene, 40x40 mm, sp. 0,12 mm			
Ceppi batterici: Escherichia coli DSM 1576			
Staphylococcus aureus DSM 346			
Volume dell'inoculo: 0,4 ml			
<b>Risultati con Escherichia coli</b>			
Inoculo iniziale (cfu/100)		conta dopo 24 h su provini non trattati (cfu/100)	
3,04x10 <sup>6</sup> ±4		197,15 ± 0,7	
log <sub>10</sub> CFU = 6,48		log <sub>10</sub> CFU = 2,29	
<b>Attività antibatterica-R = (SA-UB)-(AI-UB) = 1,78</b>			
<b> pari a una riduzione della carica microbica del 99,3%</b>			
<b>Risultati con Staphylococcus aureus</b>			
Inoculo iniziale (cfu/100)		conta dopo 24 h su provini non trattati (cfu/100)	
1,06x10 <sup>6</sup> ±4		1125	
log <sub>10</sub> CFU = 6,03		log <sub>10</sub> CFU = 3,05	
<b>Attività antibatterica-R = (SA-UB)-(AI-UB) = 1,63</b>			
<b> pari a una riduzione della carica microbica del 97,5%</b>			





# ECOSTAR 2K Saniplus COLORATA

## Two-component water-based polyurethane colored lacquer for wooden floors

Two-component water-based polyurethane colored lacquer formulated with special ionizing nanotechnological additives, whose lacquer film acts as a mechanical barrier that gives a sanitizing action. ECOSTAR 2K Saniplus Colorata shows excellent characteristics of stretch-out and levelling on the wooden floor. Has to be over-varnished with ECOSTAR 2K Saniplus Colorata. Available in RAL, NCS colors and on request.

**How to use:** catalysed according to the indicated ratio and mixed thoroughly, has to be applied on wooden floors that have been filled, sanded with 120 paper grit and vacuumed. Apply Ecostar by 6mm mohair roller, eliminating the excess of lacquer from the roller before the application on the floor. Facilitate the penetration of the product into the wood by accurate application.

CATAS			
<b>RAPPORTO DI PROVA</b> <b>122240 / 1 S</b>		<b>CONVEGNI SANCINI S.P.A.</b> Via SANCINI, 102 00144 ROMA (RM)	
Risultato campione: 08-11-10 Data emissione prova: 08-11-10 Data emissione rapporto: 08-11-10	Dimensione campione: ECOSTAR 2K SANIPLUS COLORATA ECOSTAR 2K 100 ml		
<b>Materie plastiche. Determinazione dell'azione antibatterica ISO 22196:2007</b>			
Tipo di materiale sottoposto a prova: non analizzato Dimensione del provino: 50x50 mm Particelle di copertura usate: polietilene, 40x40 mm, sa, 0,12 mm Ceppi batterici: Escherichia coli DSM 1578 Staphylococcus aureus DSM 346 Volume dell'inoculo: 0,4 ml			
<b>Risultati con Escherichia coli</b>			
Inoculo: materiale controllato dopo inoculazione (cfu/ml)	Controllo dopo 24 h su provini non trattati (cfu/cm <sup>2</sup> )	Controllo dopo 24 h su provini trattati (cfu/cm <sup>2</sup> )	Controllo dopo 24 ore su provini trattati (cfu/cm <sup>2</sup> )
1.2x10 <sup>6</sup> sp/6	3.0x10 <sup>4</sup> sp/6 log <sub>10</sub> sp= 4,48	937,5 log <sub>10</sub> sp= 2,97	15,63 log <sub>10</sub> sp= 1,19
Attività antibatterica=-(log <sub>10</sub> sp) <sub>0</sub> - (log <sub>10</sub> sp) <sub>t</sub> = 1,78 pari a una riduzione della carica microbica del 98,3%			
<b>Risultati con Staphylococcus aureus</b>			
Inoculo: materiale controllato dopo inoculazione (cfu/ml)	Controllo dopo 24 h su provini non trattati (cfu/cm <sup>2</sup> )	Controllo dopo 24 h su provini trattati (cfu/cm <sup>2</sup> )	Controllo dopo 24 ore su provini trattati (cfu/cm <sup>2</sup> )
4.2x10 <sup>6</sup> sp/5	1.0x10 <sup>4</sup> sp/5 log <sub>10</sub> sp= 4,0	1275 log <sub>10</sub> sp= 3,05	26,3 log <sub>10</sub> sp= 1,42
Attività antibatterica=-(log <sub>10</sub> sp) <sub>0</sub> - (log <sub>10</sub> sp) <sub>t</sub> = 1,65 pari a una riduzione della carica microbica del 97,8%			





# ECOSTAR 2K HD PER PAVIMENTI IN RESINA 10:2

## Two-component water-based lacquer for resin floors, resin coatings, cement and microcement

Two-component water-based lacquer recommended for residential use, particularly in public buildings (medical, offices, etc). Ideal even in the presence of pets. Applied on various surfaces, it creates a smooth, transparent, tough, walkable, resistant to abrasion coating.

### Destinations

Recommended for a lacquering protective treatment in the following cases: epoxy coatings, epoxy-cement coatings, polyurethane resins on floors and walls. Do not use on floors where the motor vehicles park.

CATAS			
<b>REPORTO DI PROVA</b> <b>122940 / 1 S</b>		CHIMICO FANGOSI S.P.A. VIA BISSOLATO, 105 00197 ROMA (RM)	
Risultato campione: 08-11-03 Esecutore prova: 08-11-03 Esecutore rapporto: 08-10-03		CHIMICO FANGOSI S.P.A. VIA BISSOLATO, 105 00197 ROMA (RM)	
<b>Materie plastiche. Determinazione dell'azione antibatterica ISO 22196:2007</b>			
Tipo di materiale sottoposto a prova: non analizzato			
Dimensione del provino: 50x50 mm			
Pellicola di copertura usata: polietilene, 40x40x0,05, 0,12 mm			
Ceppo batterico: Escherichia coli DSM 1576			
Volume dell'inoculo: Staphylococcus aureus DSM 346 0,4 ml			
<b>Risultati con Escherichia coli</b>			
Inoculo iniziale (cfu/cm <sup>2</sup> )		conta subito dopo inoculo su provini non trattati (cfu/cm <sup>2</sup> )	conta dopo 24 h su provini non trattati (cfu/cm <sup>2</sup> )
4.2x10 <sup>6</sup> ±0,6 log <sub>10</sub> N= 6,44		3.2x10 <sup>5</sup> ±0,4 log <sub>10</sub> N= 5,51	3.1x10 <sup>4</sup> ±0,3 log <sub>10</sub> N= 4,49
<b>Attività antibatterica-R= (D<sub>0</sub>-D<sub>24</sub>)-(A<sub>0</sub>-A<sub>24</sub>) = 1,78</b> pari a una riduzione della carica microbica del 99,3%			
<b>Risultati con Staphylococcus aureus</b>			
Inoculo iniziale (cfu/cm <sup>2</sup> )		conta subito dopo inoculo su provini non trattati (cfu/cm <sup>2</sup> )	conta dopo 24 h su provini non trattati (cfu/cm <sup>2</sup> )
4.2x10 <sup>6</sup> ±0,6 log <sub>10</sub> N= 6,62		2.2x10 <sup>5</sup> ±0,3 log <sub>10</sub> N= 5,34	2.1x10 <sup>4</sup> ±0,2 log <sub>10</sub> N= 4,32
<b>Attività antibatterica-R= (D<sub>0</sub>-D<sub>24</sub>)-(A<sub>0</sub>-A<sub>24</sub>) = 1,83</b> pari a una riduzione della carica microbica del 97,8%			









## STOP TO THE PROLIFERATION OF GERMS AND BACTERIA IN CONTACT WITH WOOD SURFACES

**Chimiver** additives show their effectiveness when a microorganism comes into contact with **silver ions** present on the surface of the wood protected by our lacquers. They turn wood coatings into a formidable barrier against hygiene enemies.

**Chimiver** additives maintain the characteristics of the paints unchanged, they do not cause any health hazard while safeguarding human health and the environment.

## ADDITIVO SANIPLUS ADDI19W

ADDITIVO SANIPLUS - ADDI19W - is a special additive, based on silver ions, which added to WATER-BASED LACQUERS creates a mechanical barrier that gives a sanitizing action.

The addition of ADDITIVO keeps unchanged all the characteristics of the lacquer (hardness, gloss, thixotropy, chemical and mechanical resistance).



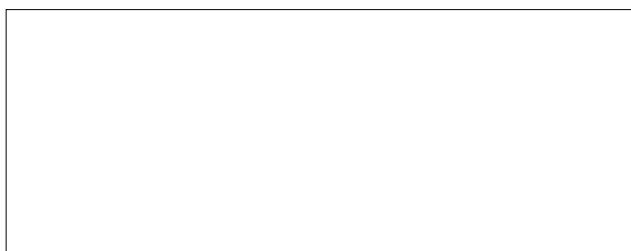
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## ADDITIVO SANIPLUS ADDI19S

ADDITIVO SANIPLUS - ADDI19S - is a special additive, based on silver ions, which added to SOLVENT-BASED and UV LACQUERS creates a mechanical barrier that gives a sanitizing action.

The addition of ADDITIVO keeps unchanged all the characteristics of the lacquer (hardness, gloss, thixotropy, chemical and mechanical resistance).





Authorized dealer

*All the information in this catalogue has been given according to the best of our knowledge and technical experience. Therefore, they are not binding in any way our company. Every single case should be put to a practical test by the user, who assumes full responsibility for the final outcome of his work.*