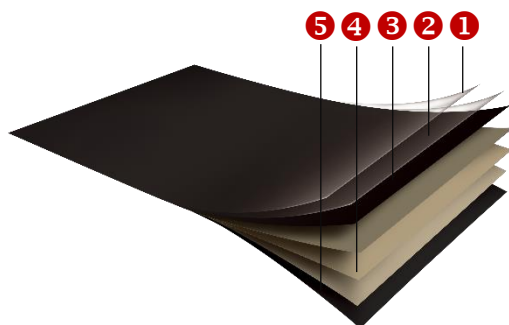


Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate



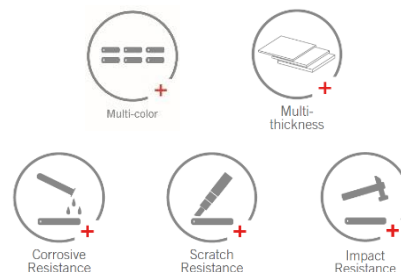
Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate is composed of melamine-impregnated decorative surface papers on one side superimposed over a varying number of kraft phenolic core sheets to achieve a desired thickness. It achieves chemical resistance with a special resin formulation.

- ① Chemical-resistance Film
- ② Transparent Overlay
- ③ Decorative Paper
- ④ Kraft Paper
- ⑤ Wilsonart Logo Paper



Product Features

- Multi-color: Varieties of patterns for customers to choose from.
- Various Thickness: Various specifications are given to meet different needs of the customers.
- Chemical and Stain Resistance: Excellent performance against the strong acids, bases and solvents.
- Endurance: Enduring surface performance to enhance customer experience with long service year.



Application

- Interior decorative material for work surface application.
- Worktops of laboratory furniture, fume hood and cabinet systems for laboratory space such as scientific research institutions and testing facilities in the industries of chemistry, pharmacy, food and cosmetics.
- Ideal for healthcare facilities such as hospital reception desks, nurse stations, healthcare offices.
- Preferable for applications where the use of cleaning agents is indiscriminate.

Specification

Finish	JT (Matt)			
Standard Panel Width and Length	48"x 96" (1220x2440mm)	48"x 120" (1220x3050mm)	60"x 120" (1525x3050mm)	60"x 144" (1525x3660mm)
Type	Typical Thickness		NEMA Thickness	
Type 568S	0.500" (12.7mm)		0.500"±5% (12.7mm±5%)	
Type 5160	0.630" (16.0mm)		0.630"±5% (16.0mm±5%)	
Type 5190	0.748" (19.0mm)		0.748"±5% (19.0mm±5%)	
Type 5200	0.787" (20.0mm)		0.787"±5% (20.0mm±5%)	
Type 5254	1" (25.4mm)		1"±5% (25.4mm±5%)	

Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Chemical/Stain Resistance

Chemical Reagent	Rating	Chemical Reagent	Rating
Acetate, Amyl	0	Acetate, Ethyl	0
Acetic Acid, 98%	0	Acetone	0
Acid Dichromate, 5%	0	Alcohol, Butyl	0
Alcohol, Ethyl	0	Alcohol, Methyl	0
Ammonium Hydroxide, 28%	0	Benzene	0
Carbon Tetrachloride	0	Chloroform	0
Chromic Acid, 60%	0	Cresol	0
Dichloroacetic Acid	0	Dimethylformamide	0
Dioxane	0	Ethyl Ether	0
Formaldehyde, 37%	0	Formic Acid, 90%	0
Furfural	0	Gasoline 92#	0
Hydrochloric Acid, 37%	0	Hydrofluoric Acid, 48%	0
Hydrogen Peroxide, 30%	0	Iodine, Tincture of	0
Methyl Ethyl Ketone	0	Methylene Chloride	0
Monochlorobenzene	0	Naphthalene	0
Nitric Acid, 20%	0	Nitric Acid, 30%	0
Nitric Acid, 70%	0	Phenol, 90%	0
Phosphoric Acid, 85%	0	Silver Nitrate, Saturated	0
Sodium Hydroxide, 10%	0	Sodium Hydroxide, 20%	0
Sodium Hydroxide, 40%	0	Sodium Hydroxide, Flake	0
Sodium Sulfide Saturated	0	Sulfuric Acid, 33%	0
Sulfuric Acid, 77%	0	Sulfuric Acid, 96%	0
Sulfuric Acid, 77% & Nitric Acid, 70% equal parts	0	Toluene	0
Trichloroethylene	0	Xylene	0
Zinc Chloride, Saturated	0		

Rating Key: 0=No effect, 1=Excellent, 2=Good, 3=Fair

Chemical resistance tests are performed in accordance with the Scientific Equipment and Furniture Association (SEFA) recommended practices SEFA 3-2010 for laboratory work surfaces.

Fire Performance

Test	Test Standard	Unit	Typical Value*
Fire-rating	EN 13501-1	Class	B-s1,d0

Environmental Performance

Test	Test Standard	Unit	Typical Value*
Formaldehyde Release	ISO 12460-3	mg/m ² ·h	Not Detected

2/7

Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Antimicrobial Activity

Test Organism	Concentration of bacteria (cfu/ml)	Volume of test inoculum (ml)	The value of antimicrobial activity
Klebsiella pneumoniae ATCC 4352	1.2×10^6	0.2	5.7
Staphylococcus aureus ATCC 6538P	1.2×10^6	0.2	5.4
Escherichia coli ATCC 8739	1.2×10^6	0.2	6.0
Enterococcus faecalis ATCC 29212	1.2×10^6	0.2	2.6
Salmonella enterica subsp. Enterica ATCC 14028	1.2×10^6	0.2	4.1

Antimicrobial activity tests are performed in accordance with ISO 22196:2011.

Physical Property

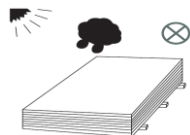
Test	Test Standard	Unit	Typical Value*	EN Standard (CGS Values)
Resistance to surface wear	EN 438-2:2016	Revolutions	800	150 (min.)
Resistance to immersion in boiling water				
Mass increase	EN 438-2:2016	%	0.4	2 (max.)
Thickness increase	EN 438-2:2016	%	0.9	2 (max.)
Surface rating scale	EN 438-2:2016	rating	5	3 (min.)
Edge rating scale	EN 438-2:2016	rating	5	3 (min.)
Resistance to water vapour	EN 438-2:2016	rating	5	3 (min.)
Resistance to dry heat (160°C)	EN 438-2:2016	rating	5	3 (min.)
Resistance to wet heat (100°C)	EN 438-2:2016	rating	5	4 (min.)
Dimensional stability at elevated temperature				
Machine direction	EN 438-2:2016	%	0	0.30 (max.)
Cross direction	EN 438-2:2016	%	0.05	0.60 (max.)
Resistance to impact by large diameter ball	EN 438-2:2016	mm	2000	1800 (min.)
Resistance to crazing	EN 438-2:2016	rating	5	4 (min.)
Resistance to scratching	EN 438-2:2016	rating	5	2 (min.)
Water absorption	ISO 62:2008	%	0.0	/
Density	ISO 1183-1:2012	g/cm ³	1.38	1.35 (min.)
Flexural Strength				
Lengthways	ISO 178:2019	MPa	181	80 (min.)
Transverse	ISO 178:2019	MPa	132	80 (min.)
Flexural Modulus				
Lengthways	ISO 178:2019	MPa	15700	9000 (min.)
Transverse	ISO 178:2019	MPa	10900	9000 (min.)
Tensile Strength				
Lengthways	ISO 527-1:2019	MPa	139	/
Transverse	ISO 527-1:2019	MPa	86.6	/
Rockwell Hardness	ISO 2039-2:1987	M	114	/

*Note: All values are measured under standard test method. Variations within normal tolerances may be expected. Typical data is only for reference and not for quality compliant.

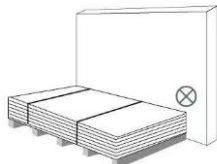
Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Storage Guide

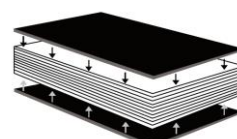
- (1) No direct exposure to sunlight.
 Recommended warehouse temperature
 24°C, RH 45%.



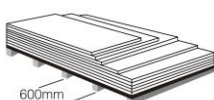
- (2) Strictly no direct contact against wall
 when store.



- (3) No direct contact with floor. Top and
 bottom with cover sheets. Wrap one stack
 with plastic film to avoid wet.



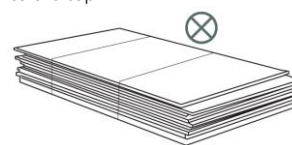
- (4) Use strong and flat pallet. Bottom cover
 sheet with a thickness $\geq 3\text{mm}$ and a size
 bigger than panel. Pallet reinforcement
 distance $\leq 600\text{mm}$.



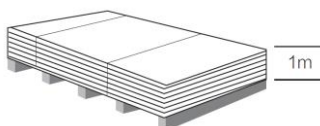
- (5) Horizontal storage ONLY and Strictly No
 vertical stacking.



- (6) Lay the panels neat and flat. Arrange big
 to small size sequentially from the bottom
 to the top.



- (7) One stack height $\leq 1\text{m}$,
 Maximum Stacking Height $\leq 3\text{m}$



- (8) Conditioning at job site for at least 72
 hours before installation



- (9) Face the side with Wilsonart label upward.

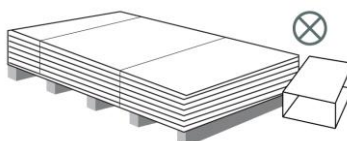


Transfer Guide

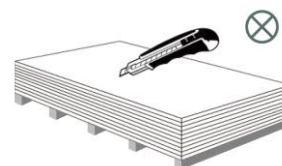
- (1) No pull or drag while lifting/moving



- (2) Not crashing the corner with hard objects.



- (3) Strictly not scratching surface with sharp
 objects.



- (4) Lift vertically upward manually or by
 suction machine.

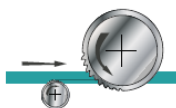


Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Processing and Installation Guide

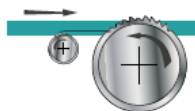
- (1) Keep the blade sharp and cutting trail narrow. A small blade to cut the surface open before the master blade to make the cutting even and smooth.

The same direction as the pre-cutting.



- (2) Adjust the height of blade position and cutting in angle to minimize broken edge. Blade position higher if edge broken on face side, blade position lower if edge broken on back.

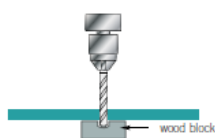
The opposite direction to pre-cutting.



- (3) Use professional drilling tools with a 60° angled drilling head.



- (4) Decrease the speed and pressure of the drilling head in a progressive manner. Put a wood block under the drilling hole.



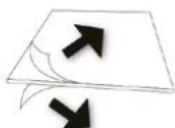
- (5) Reserve at least 1.5mm undrilled in depth for blind drilling. Reserve at least 3 mm from the hole to each surface for parallel drilling.



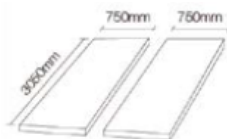
- (6) Drilling head with a diameter 0.05mm bigger than the inner diameter of the drilling hole



- (7) Keep the protective film of both sides while fabrication. Peel off the film simultaneously after fabrication.



- (8) Cut the panel along machine direction (lengthwise).



- (9) Apply general-purpose sealant or structural adhesive first before fixing the worktop with hardware. Joint along the same lengthwise or widthwise of two panels.



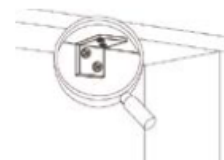
- (10) Recommend 3mm expansion space between two joint panels. Recommend at least 5mm expansion space while panel to be jointed with wall or other building mate



- (11) Fix the worktop every 80cm by right angled hardware and flat head screw (diameter 5mm)



- (12) Drill holes by multi-stage gun drill to pinpoint the drilling depth.



- (13) Allow enough expansion space between two joint worktops. Recommend silica gel to seal the joint in damp environment.



- (14) No panel joint adjacent to the water tank. No panel joint the position of water tank.



Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Maintenance

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 2-minute exposure to hypochlorite bleach such as Clorox®, followed by a clean water rinse.

We recommend that you do not allow any of the following reagents to remain in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid such as Lime-A-Way™, sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano®
5. Sodium bisulfate, such as Sani-Flush®
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration or greater
9. Gentian violet
10. Mild silver protein, such as 20% argyrol
11. Bluing
12. Fabric dye, such as Tintex® or Rit®
13. Alcohol containing 1% iodine in solution

Warranty

Wilsonart (Shanghai) Co., Ltd. warrants that, under normal use and service, this product shall conform to the standards set forth on the applicable technical data sheets for a period of twelve (12) months from the date of sale to the first consumer purchaser. Dealers and distributors are provided with the technical data sheets which contain specific standards of performance for the products. In the event that this product does not perform as warranted, the first purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product which is defective, at the manufacturer's sole discretion.

This warranty applies only to product:

1. In its original installation; and
2. Purchased by the first consumer purchaser.

This warranty is not transferable, and expires upon resale or transfer by the first consumer purchaser. This warranty shall not apply to defects or damage arising for any of the following:

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation;
4. Improper maintenance.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE. UNDER NO CIRCUMSTANCES SHALL WILSONART (SHANGHAI) CO., LTD. BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THIS PRODUCT, OR FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. NO FABRICATOR, INSTALLER, DEALER AGENT OR EMPLOYEE OF WILSONART (SHANGHAI) CO.,LTD. HAS THE AUTHORITY TO MODIFY THE OBLIGATIONS OR LIMITATIONS OF THIS WARRANTY.

This warranty gives you specific legal rights, and you also may have other rights that vary from country to country; therefore, some of the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.

Wilsonart® Chemsurf® Chemical-Resistant Compact Laminate

Technical Service

For samples, literature, questions or technical assistance, please contact our Hotline at 86-21-6700 1680, Monday through Friday, 8:30 am –16:30 pm, CCT.

Chemsurf TD (TD0711)

Revised: July 11th, 2022

© 2022, Wilsonart (Shanghai) Co., Ltd.