

Wilsonart® - Chemsurf Protector Compact Laminate

TECHNICAL DATA SHEET FOR CHEMICAL RESISTANT COMPACT LAMINATE

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DESCRIPTION

Incorporating our new generation Protector layer technology, Wilsonart® Chemsurf® Protector Compact Laminate offers superior chemical, scratch, and impact resistance. Designed for use in highly corrosive environments, Chemsurf® Protector Compact Laminate is resistant to the harshest of acids, bases, and solvents, providing practicality without sacrificing design and style, and a cost-effective solution over its life cycle than alternatives such as stainless steel, or slate while also being more versatile.

Available in a choice of 12.7mm & 16mm thicknesses and four colours and due to its extra thickness and strength compact laminate does not require a substrate. As with postforming grade laminate, Chemsurf® Protector Compact Laminate can be applied to both horizontal and vertical applications.

APPLICATION

Chemsurf® Protector Compact is applied to surfaces where a functional, durable, decorative material should also be chemical-resistant. Specific applications include laboratory casework, counters and tabletops in hospitals, photographers' darkrooms, beauty salons and product testing facilities. Chemsurf® Protector Compact Laminate is ideal for nurses' stations, pathologists', physicians' and dentists' examination, treatment, and workrooms.

SURFACE FINISHES

Chemsurf® Protector Compact is stocked locally in one surface texture offered across a limited range of décors. Recommended for horizontal and vertical applications.

60

Matte

A lightly textured finish with a moderate reflective quality.

Nominal Glossometer Reading = 10

NOTE: Glossometer readings are made at a 60° angle of incidence.

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TECHNICAL DATA

Chemsurf®		EN Standard	
Protector Compact	Typical Value	(CGS Values)	Test Std
Décor	Sheet Size mm		
Black	1596-60	3660x1525	
Fashion Grey	D381-60	3660x1525	
Frosty White	1573-60	3660x1525	
North Sea	D90-60	3660x1525	
Nominal thickness	12.7mm & 16mm		
Thickness tolerance	± 5%		
Resistance to surface wear	170 revolutions	150 (min)	EN438-2.2016
Resistance to immersion in boiling water			EN438-2.2016
- Mass increase	1.0%	2 (max)	
- Thickness increase	1.5%	2 (max)	
- Surface rating scale	5 rating	3 (min)	
- Edge rating scale	5 rating	3 (min)	
Resistance to water vapour	5 rating	3 (min)	EN438-2.2016
Resistance to dry heat (160°C)	5 rating	3 (min)	EN438-2.2016
Resistance to wet heat (100°C)	5 rating	4 (min)	EN438-2.2016
Dimensional stability at elevated temperature	0%	0.30 (max)	EN438-2.2016
Resistance to impact by large diameter ball	2000mm	1800 (min)	EN438-2.2016
Resistance to crazing	5 rating	4 (min)	EN438-2.2016
Resistance to scratching	4 rating	2 (min)	EN438-2.2016
Water absorption	0.5%	-	EN ISO 62:2008

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TECHNICAL DATA - Continued

Chemsurf® Protector Compact	Typical Value	EN Standard (CGS Values)	Test Std
Density	1.38 g/cm ³	1.35 (min)	EN ISO 1183-1: 2012
Flexural Test			EN ISO 178:2010 Amd.1:2013
- Flexural Strength	131 MPa	80 (min)	
- Flexural Modulus	12800 MPa	9000 (min)	
Rockwell Hardness	112L	-	EN ISO 2039-2: 1999
Tensile Strength	3720 N	-	EN ISO 527-1&2: 2012

Note: All values are measured under standard test method. Variations within normal tolerances may be expected.

CHEMICAL & STAIN RESISTANCE

Chemical Reagent	Effect	Chemical Reagent	Effect
Acetate, Amyl	0	Alcohol, Methyl	0
Acetate, Ethyl	0	Ammonium Hydroxide, 28%	0
Acetic Acid, 98%	0	Benzene	0
Acetone	0	Carbon Tetrachloride	0
Acid Dichromate, 5%	0	Chloroform	0
Alcohol, Butyl	0	Chromic Acid, 60%	0
Alcohol, Ethyl	0	Cresol	0

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

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Chemical Reagent	Effect	Chemical Reagent	Effect
Dichloroacetic Acid	0	Nitric Acid, 70%	0
Dimethylformamide	0	Phenol, 90%	0
Dioxane	0	Phosphoric Acid, 85%	0
Ethyl Ether	0	Silver Nitrate, Saturated	0
Formaldehyde, 37%	0	Sodium Hydroxide, 10%	0
Formic Acid, 90%	0	Sodium Hydroxide, 20%	0
Furfural	0	Sodium Hydroxide, 40%	0
Gasoline 92#	0	Sodium Hydroxide, Flake	0
Hydrochloric Acid, 37%	0	Sodium Sulfide Saturated	0
Hydrofluoric Acid, 48%	0	Sulfuric Acid, 33%	0
Hydrogen Peroxide, 30%	0	Sulfuric Acid, 77%	0
Iodine, Tincture of	0	Sulfuric Acid, 96%	0
Methyl Ethyl Ketone	0	Sulfuric Acid, 77% & Nitric Acid, 70% equal parts	0
Methylene Chloride	0	Toluene	0
Monochlorobenzene	0	Trichloroethylene	0
Naphthalene	0	Xylene	0
Nitric Acid, 20%	0	Zinc Chloride, Saturated	0
Nitric Acid, 30%	0		

Rating Key: 0 = No effect, 1= Excellent, 2 = Good, 3 = Fair Chemical resistance tests are performed in accordance with the Scientific Equipment & Furniture Association (SEFA) recommended practices SEFA 3-2010 for laboratory work surfaces.

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ANTIMICROBIAL ACTIVITY

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

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

FIRE PERFORMANCE

Group Classification Number AS/NZS 3837-1998 Group 3
Average Specific Extinction Area 75.3 m²/kg

ENVIRONMENTAL DATA

Since 2009, Wilsonart® has considered the environmental impact of its products: greenhouse gases, energy consumption, water recycling... employing the Life Cycle Assessment (LCA). Respecting the environment is a daily preoccupation in all our activities. We have put in place environmental practices which are monitored through a Total Quality Process.

ISO 9001 and ISO 14001 Certified.

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CARE AND MAINTENANCE

For everyday cleaning, simply wipe the surface with a soft, damp cloth, warm water and a mild detergent then wipe dry.

Do not use cleaners 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 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

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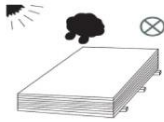
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STORAGE GUIDE

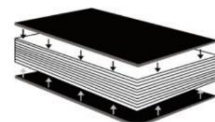
- (1) No direct exposure to sunlight. Recommended warehouse temperature 24°C, RH 45%.



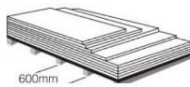
- (2) Strictly no direct contact against wall when store.



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



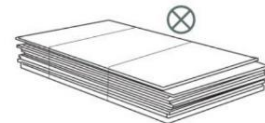
- (4) Use strong and flat pallet. Bottom cover sheet with a thickness $\geq 3\text{mm}$ and a size bigger than panel. Pallet reinforcement distance $\leq 600\text{mm}$.



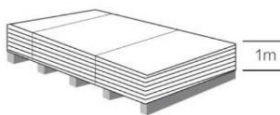
- (5) Horizontal storage ONLY and Strictly No vertical stacking.



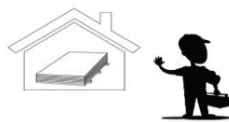
- (6) Lay the panels neat and flat. Arrange big to small size sequentially from the bottom to the top.



- (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.

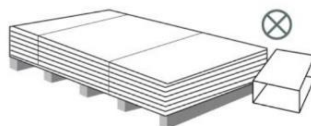


TRANSFER GUIDE

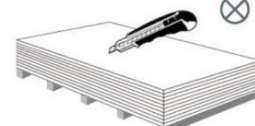
- (1) No pull or drag while lifting/moving



- (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.









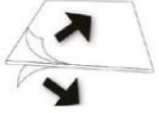
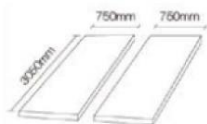
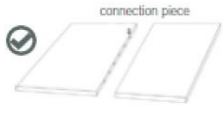


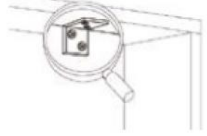


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PROCESSING & INSTALLATION GUIDE

- (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 materials.

- (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.


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