

Wilsonart®

H I G H P E R F O R M A N C E S E R I E S



C H E M I C A L R E S I S T A N T R A N G E

Distributed Exclusively by



Decorative Building Products

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The Company

Founded in 1956 by Ralph Wilson, Sr, Wilsonart® International started life in Texas as a producer of high-pressure decorative laminate. As a retired laminate industry executive, Wilson's intent was never to build a major competitor [the field in those days included 12 domestic U.S competitors], but rather to fill his free time. Throughout the 1960s, Wilson's "hobby" grew dramatically through a formula comprising a dedicated local workforce, high-quality products and an old-fashioned commitment to customer service. More than half a century later, Wilsonart® continues to provide unparalleled service and high-quality, innovative products that surpass the expectations of its customers, without sacrificing the future of the planet. It is this commitment to the environment that lead to Wilsonart® to take the lead to re-shape the entire supply chain for its paper source, which makes up 70% of its high-pressure laminate [HPL] product lines, ensuring along the way that all source materials met stringent FSC certification requirements. Just one initiative of many. Wilsonart is proud to be the first adhesive manufacturer to have their low-emitting PVA and woodworking adhesives recognized by UL's GREENGUARD® Certification Program for indoor air quality. Additionally, our laminates have received the following industry certifications and compliances:

- Forest Stewardship Council (FSC)
- UL 2818: GREENGUARD® Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings
- NSF International, The Public Health and Safety Company™
- SCS Global Services (SCS)

Wilsonart® today is the number one laminate brand in the USA and one of the leading brands worldwide. Operating in 57 countries throughout the world, the Wilsonart® Company's reputation for quality products is highly regarded.

Partnering with HVG

HVG and Wilsonart have established a long term partnership, aimed at providing the Australian market with more choice in laminate than HVG has ever offered before. With over 200 references in the Wilsonart collection and an ever increasing selection of unique surface finishes available, the final decision is limited only to the imagination of the many customers who choose Wilsonart. With its Australia-wide coverage, HVG is perfectly positioned to support a broad spectrum of Clients, from Architects and Designers, to builders of all sizes through to Retailers, HVG carries stock in all key States to support the market with fast and efficient delivery.



Wilsonart®

About Chemsurf®

Chemical Environment Solutions

When you need to specify a surface that is resistant to the harshest of acids, bases and solvents, the Wilsonart® chemical resistant range answers the challenge. Designed for highly corrosive environments, specific applications may include laboratory benchtops, fascia panels in laboratory furniture, hospital or health facility countertops, photographic processing areas, through to nail salons. Available in postforming grade laminate or compact laminate, Wilsonart® Chemsurf® offers practicality without sacrificing design and style. And is often less expensive upfront and over its life cycle than alternatives such as stainless steel, or slate while also being more versatile.

Chemsurf Postforming Laminate

Intended for both horizontal and vertical applications, Wilsonart® laminate can be applied and is perfect for areas that are vulnerable to chemical attack. Available in ten colours, Chemsurf® laminate can be postformed so is ideal for applications where it is desirable to roll the laminate on a simple radius over the substrate to eliminate seams, which are otherwise vulnerable to chemicals.

Chemsurf Protector Compact Laminate

As with postforming grade laminate, Chemsurf® compact laminate can be applied to both horizontal and vertical applications, however due to its extra thickness and strength compact laminate does not require a substrate. Available in a choice of three thicknesses and three colours, Wilsonart® Chemsurf® compact laminate incorporates our new Protector layers, adding incredible scuff, scratch and impact resistance to its chemical environment credentials.

WHERE FORM + FUNCTION WORK IN HARMONY



Wilsonart® Chemsurf® Certificate Compliance | Greenguard

Codes and Certification:

The GREENGUARD® Environmental Institute™ has awarded its GREENGUARD® Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent GREENGUARD® Standards for low-emitting products.

All GREENGUARD® Indoor Air Quality Certified products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

NEMA scratch resistance testing

Wilsonart Chemsurf postforming grade laminate conforms to typical standards of ANSI/ NEMA LD3-2005 for HGP postforming laminate. Wilsonart® Chemsurf® compact laminate conforms to typical standards of ANSI/ NEMA LD3-1995 for high-pressure decorative laminates.

BCA fire testing | AS/ANZ 3837 - 1998

Wilsonart® Chemsurf® compact laminate conforms to BCA Group classification 3.

Test certificate available upon request or at www.hvgbuilding.com.au

ISO 4586 Standards

Test certificate available upon request or at www.hvgbuilding.com.au

Various grades of Wilsonart® Basic Type Laminates meet or exceed the International Standards Organisation Specifications as found in ISO 4586 titled, "High-Pressure Decorative Laminate (HPDL) - Sheets Based on Thermosetting Resins - Part I: Specification.

Wilsonart® Chemsurf® is also Scientific Equipment & Furniture Association SEFA No. 8.1 approved.



Wilsonart®

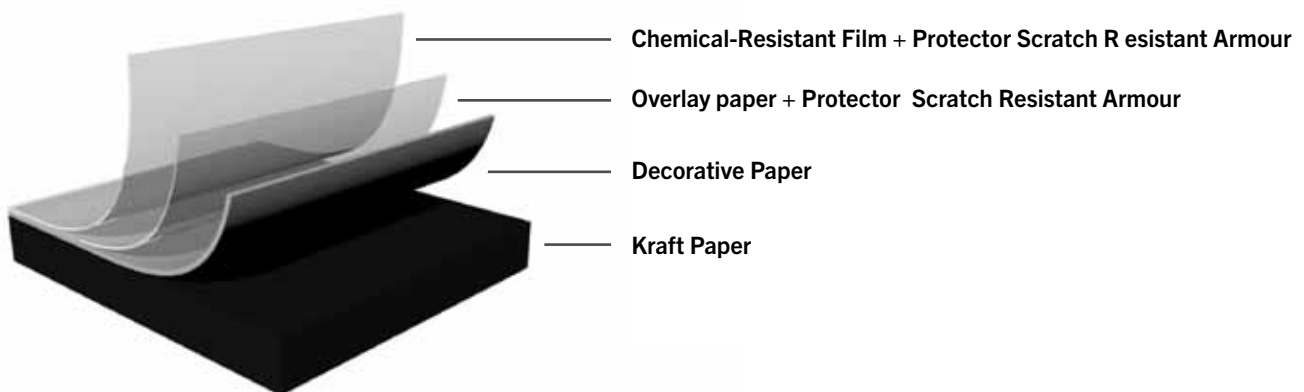
Material Composition

Wilsonart® Chemsurf® Composition

Wilsonart postforming grade laminate offers 10-colours in a 0.8mm thick laminate, suitable for postforming to a radius of 16mm [face] / 10m [back] or greater. A special resin formulation is applied over the decorative surface paper to achieve chemical resistance. The decorative paper is treated with melamine resin; and the core is composed of Kraft papers impregnated with phenolic resin. The sheets are then bonded at pressures greater than 70kg per cm² at temperatures approaching 149C°. The finished sheets are then trimmed and sanded on the back ready for bonding to the substrate.

Chemsurf® Protector Compact Laminate Composition

The formulation of compact laminate follows the same process but with a greater build-up of Kraft papers to arrive at the required thickness e.g. 12.7mm. This process of adding more Kraft papers means that the finished [compact laminate] material has a higher impact resistance than standard post forming grade laminate. The Protector layers applied to the range of compact laminates is a new technology which enhances the scuff and scratch resistance of the material, making it perfect for high-wear areas.



Scratch Resistance results for Chemsurf® Protector Compact Laminate are:

Light colour – 4.5N

Dark colour – 4.8N

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Colour

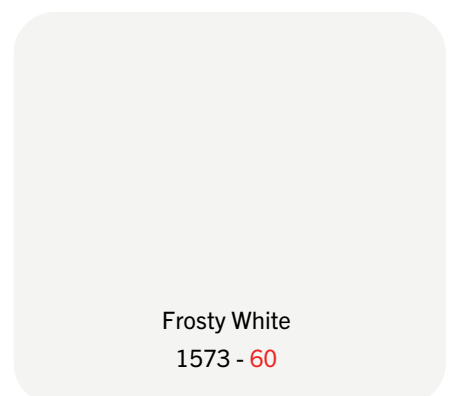
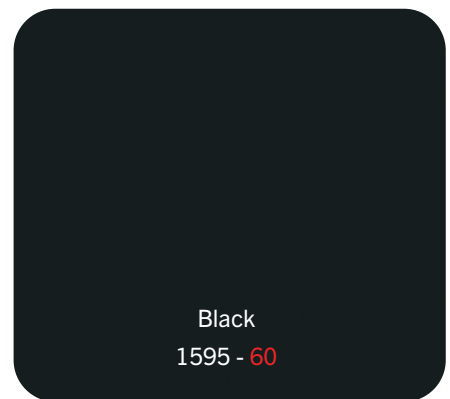
Wilsonart® Chemsurf® Availability Chart

PRODUCT			
Description	Sheet Size (Nominal) (length x width x thickness)	Colour	Code
Wilsonart® Chemsurf® Postforming Laminate (#60 finish)	3660 x 1530 x 0.8mm	Designer White	D354-60
		Antique White	1572-60
		Frosty White	1573-60
		Fashion Grey	D381-60
		Neutral Glace	4143-60
		Light Beige	1531-60
		Brittany Blue	D321-60
		Graphite Nebula	4623-60
		Black	1595-60
		Grey Glace	4142-60
Wilsonart® Chemsurf® Protector Compact laminate (#60 finish)	3660 x 1525 x 12.7mm** 3660 x 1525 x 16mm** 3660 x 1525 x 25mm**	Frosty White	1573-60
		Fashion Grey	D381-60
		Black	1595-60

Typical Wilsonart thickness tolerance $\pm 5\%$

**For other available thicknesses in Compact Laminate, please contact your representative for lead times.

Chemsurf® Protector Compact Laminate 3 Colour Range



Project Support and Samples

To further assist you with specific technical details and samples for your project, contact your HVG representative on **1300 854 166**.

As the exclusive distributor for Wilsonart products, HVG stocks Wilsonart Chemsurf in locations across Australia. For larger projects, talk to the team about forecasting to ensure product is available in your State to suit your project timings.

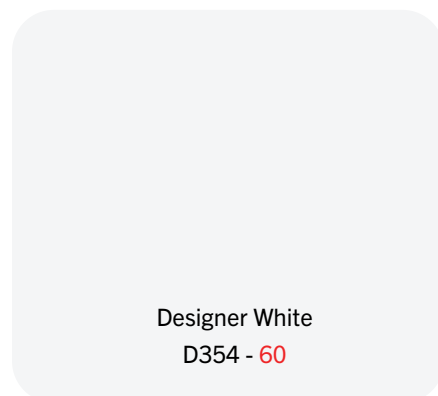
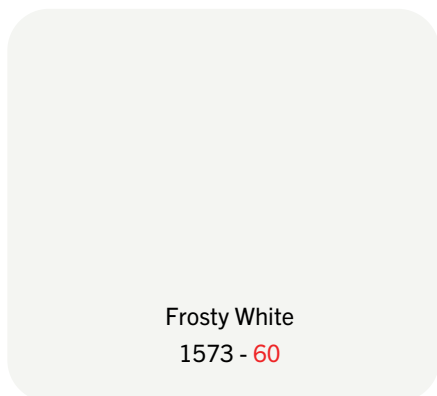
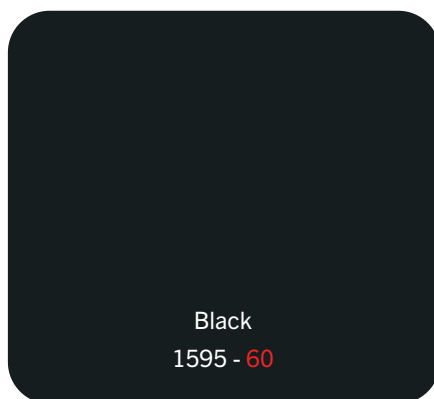
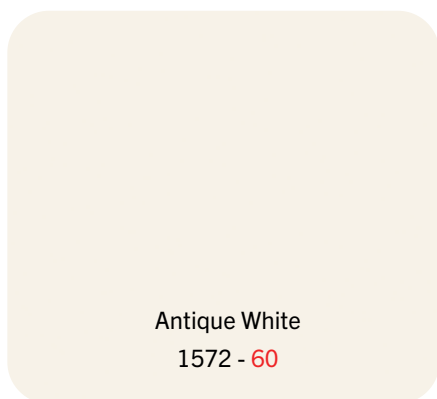
Finish and texture indicated in red. Refer to an actual sample prior to specifying colours, colours may vary on screen and in print.

Colour

Chemsurf® Postforming Laminate 10 Colour Range

Designed specifically to meet the decor needs of commercial projects, this collection features colourways and patterns that coordinate easily into all environments.

Other colours available against order.



Finish and texture indicated in red. Refer to an actual sample prior to specifying colours, colours may vary on screen and in print.

Wilsonart® Chemsurf® Chemical and Stain Resistance

Postforming Laminate + Protector Compact

No effect was exhibited except as noted (* or **) on the following:

Acids	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
1. Nitric Acid (all concentrations)	**	**	8. Hydrofluoric Acid 48% (concentrated)	*	*
2. Glacial Acetic Acid 99% (concentrated)			9. Aqua Regia		
3. Sulfuric Acid (all concentrations)	**	**	10. Chromic Trioxide (Chromic Acid Cleaning Solution)	*	*
4. Hydrochloric Acid (all concentrations)			11. Perchloric Acid (concentrated)		
5. Phosphoric Acid (all concentrations)			12. Picric Acid 1.2% (0.05M)		
6. Formic Acid (all concentrations)			13. Tannic Acid (sat.)		
7. Acetic Acid (all concentrations)			14. Uric Acid (sat.)		
Solvents	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
15. Carbon Tetrachloride			28. Butyl Alcohol		
16. Carbon Disulfide			29. Amyl Alcohol		
17. Acetone			30. Amyl Acetate		
18. Formaldehyde			31. Cresol		
19. Methanol			32. Dioxane		
20. Ethyl Acetate			33. Trichloroethane		
21. Toluene			34. Chlorobenzene		
22. n-Hexane			35. Dimethylformamide		
23. Ethyl Alcohol			36. Methylene Chloride		
24. Chloroform			37. Methyl Ethyl Ketone		
25. Phenol (all concentrations)	*	*	38. Naphthalene		
26. EDTA			39. Tetrahydrofuran		
27. Xylene					
Bases	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
40. Sodium Hydroxide (all concentrations)			42. Ammonium Hydroxide (all concentrations)		
41. Sodium Sulfide 15%					
General Reagents	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
43. Sodium Hypochlorite 5%			67. Methyl Methacrylate		
44. Calcium Hypochlorite (concentrated)			68. Alconox (Lab Detergent)		
45. Hydrogen Peroxide 3%			69. Karl Fisher Reagent		
46. Trisodium Phosphate 30%			70. Urea		
47. Sodium Thiocyanate			71. Naphtha		
48. Zinc Chloride			72. Cellosolve		

General Reagents	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
49. Lactated Ringers			73. Ammonium Phosphate		
50. Sucrose 50%			74. Iodine		
51. Gasoline			75. Povidone Iodine		
52. Kerosene			76. Tincture of Mercurochrome		
53. Mineral Oil			77. Tincture of Iodine		
54. Vegetable Oils			78. Tincture of Merthiolate		
55. Water			79. Eucalyptol		
56. Sodium Chromate			80. Procaine		
57. Potassium Permanganate			81. Zephiran Chloride		
58. Silver Nitrate			82. Zinc Oxide Ointment		
59. Formalin			83. Lysol		
60. Benedicts Solutions			84. Aromatic Ammonia		
61. Phosphate Buffered Saline (PBS)			85. Thymol & Alcohol		
62. Copper Sulfate			86. Camphorated para-chlorophenol	*	*
63. Petroleum Jelly			87. Quaternary Ammonia Compounds		
64. Aluminum			88. Monsel's Solution (Ferric Subsulfate)		
65. Ethylene Glycol			89. Sodium Azide		
66. Pine Oil					
Stains and Indicators	Chemsurf Postform	Chemsurf Protector		Chemsurf Postform	Chemsurf Protector
90. Bromothymol Blue			98. Sudan III		
91. Phenolphthalein			99. Nigrosine		
92. Methyl Red			100. Crystal Violet		
93. Methyl Orange			101. Malachite Green		
94. Ag Eosin Bluish 5% in Alcohol			102. Cresol Red		
95. Gentian Violet 1%			103. Gram Stains		
96. Wright's Blood Stain			104. Safranin O		
97. Methylene Blue			105. Thymol Blue		

* Causes slight change of gloss or colour. But no change in function or life of the surface.

** Causes slight damage, with degree of damage proportionate to length of exposure and concentration. But no significant impairment of surface life or function.

Wilsonart® Chemsurf®

Physical Properties (Test Specifications below are in accordance with NEMA LD3-2005)

NEMA Performance Properties of **Chemsurf® Postforming + Protector Compact Laminate** - meets or exceeds these values

Mechanical Property	ASTM Test Method	Test Results	Chemsurf Protector Compact	NEMA Standard (CGS Values)
			>13mm (± 5% of thickness)	
Flexural Strength	D 790-07	MD	205 MPa	124 MPa
Compressive Strength	D695-84a	MD	321 MPa	N/A
Tensile Strength	D638-08	MD	178 MPa	124 MPa
		CD	102 MPa	82.7 MPa
IZOD Impact Strength	D256-06a		42J/m	N/A
Flexural Modulus	D790-07		16.5 GPa	11 GPa
Rockwell Hardness	D785-08		79.7 (HRE)	N/A
Liquid Absorption	D570-98(2005)		0.73%	N/A

NEMA Performance Properties (meets or exceeds these values)

Property	Units	Chemsurf® Postforming Laminate	NEMA Standard	Chemsurf® Protector Compact Laminate	NEMA Standard
		0.8mm (± 5% of thickness)		>2.7mm (± 5% of thickness)	
Scratch Resistance	Newtons	2.5		4.8	
Wear Resistance	Cycles	≥400	400min	>700	400min
Formability	mm	(16mm) face (5mm) back	(16mm)		
Cleanability	Rating, Max.	10	20 (max.)	10	25 (max.)
Stain Resistance Reagents 1-10 , Reagents 11-15	Rating, ** Min.	NE NE	NE ME	NE NE	NE ME
Boiling water resistance	Rating, Min.	NE	SL	NE	NE
High Temperature Resistance	Rating, Min.	SL	SL	SL	SL
Ball Impact Resistance	mm (in.) Min.	(1524mm)	(508mm)	(2980mm)	(1900mm)
Radiant Heat Resistance	Sec., Min.	200	100 (min.)	200	
Dimensional Change	% MD, Max	0.50%	1.1% (max.)	0.07%	0.3% (max.)
	% CD, Max	0.80%	1.4% (max.)	0.08%	0.7% (max.)
Room Temperature Dimensional Stability	% MD, Max	0.3%	0.3% (max.)	0.3%	0.3% (max.)
	% CD, Max	0.7%	0.7% (max.)	0.7%	0.7% (max.)

*(N) Newtons - measure of force

**For a complete list of acids, bases, solvents, reagents, indicators and other lab materials safe for use on Chemsurf. Refer to pages 6 and 7.



Care + Maintenance

To clean solid grade laminate surfaces, simply wipe with a soft damp cloth and mild detergents; then rinse thoroughly with warm water and wipe dry. For stubborn stains, use an all-purpose cleaner, with a damp cloth; then rinse thoroughly with warm water and wipe dry. Stubborn stains may be removed with a 1-1/2 minute exposure to hypochlorite bleach, followed by a clean water rinse.

How to Specify

Specification Template available at www.hvgbuilding.com.au



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*Wilsonart High Performance Series - Chemsurf 15 Year Warranty information can be viewed online at www.hvgbuilding.com.au



*For specific technical and fabrication details please contact a HVG representative.
Please also refer to an actual sample before specifying colours, as colours can vary due to the printing process.



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