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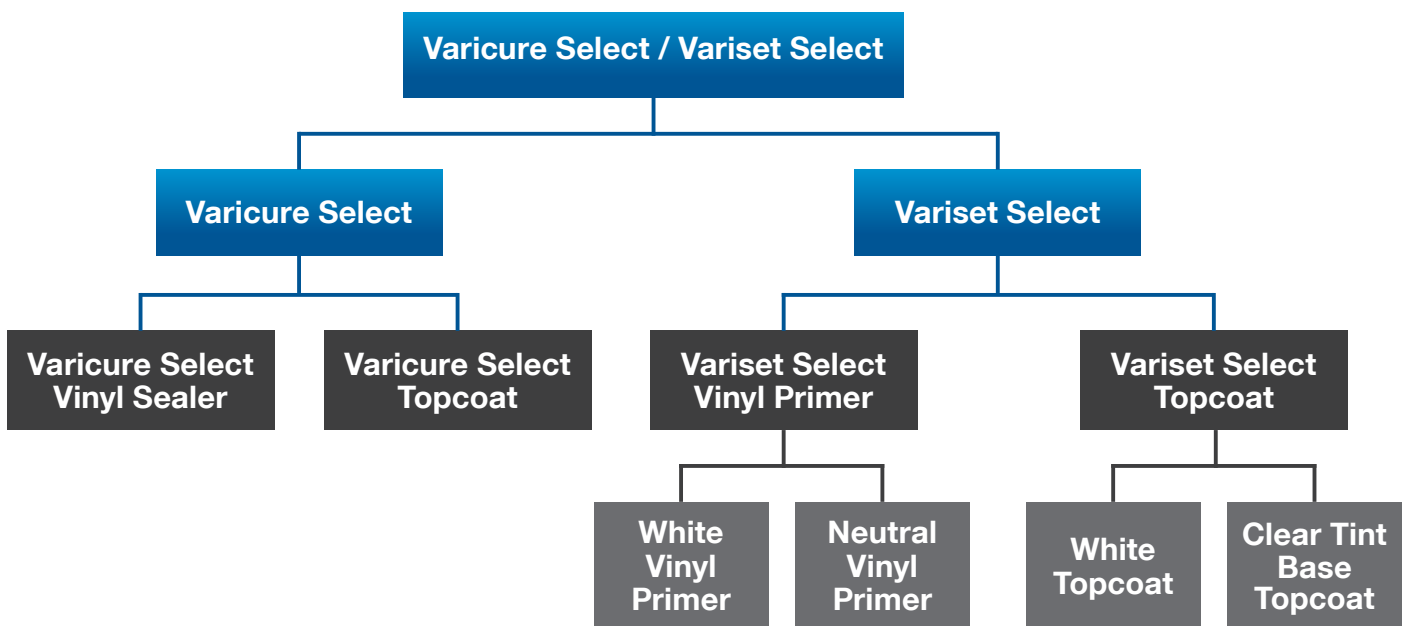
A Great Finish is Only the Beginning

Varicure® Select and Variset® Select





Varicure®/Variset® Select Pre-Catalyzed family



Varicure® Select/Variset® Select value proposition

A high-quality, premium, Pre-Catalyzed product line with superior moisture and chemical resistance, usually only found in higher performance technologies, that deliver an aesthetically pleasing look and silky feel finish.

Enables distributors to lead with premium products in the market and capture more business.

Unique selling points:

- Superior moisture resistance
- Superior chemical resistance

Additional benefits:

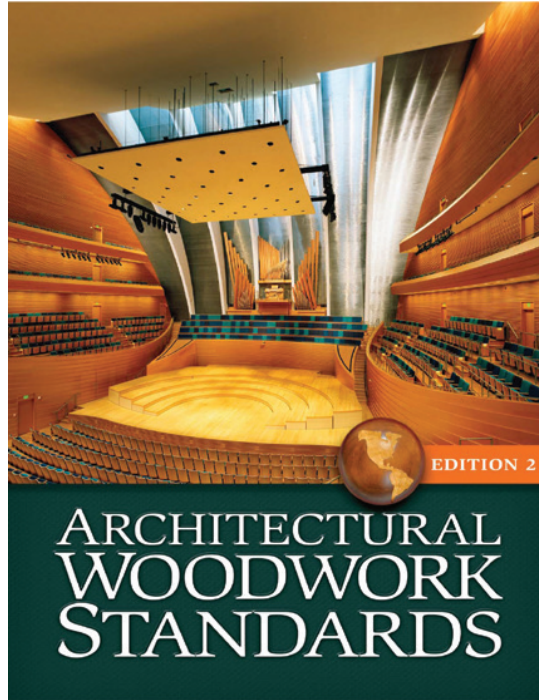
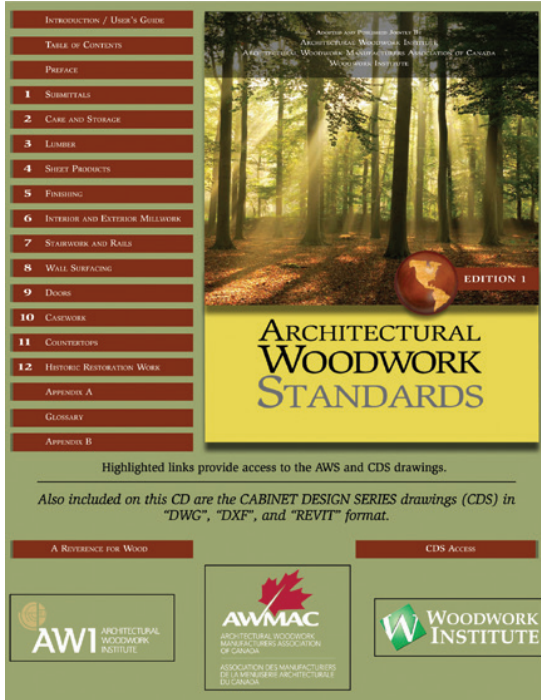
- Silky feel
- Aesthetically pleasing look
- KCMA compliant



Varicure® Select / Variset® Select Pre-Catalyzed North American product line

Product code	Product description	US		Canada	
		Ones container code	Pails container code	Ones container code	Pails container code
431-52XX	Varicure Select Clear Topcoat 5, 10, 20, 35, 50, 90	D1CG	D5PRS	C-3.5LM	C-20LM
431-5202	Varicure Select Clear Vinyl Sealer	D1CG	D5PRS	C-3.5LM	C-20LM
131-54XX	Variset Select HH White Topcoat 5, 10, 20, 35, 50, 90	D.91CG	D4.5PRS	C-3.42LM	C-18.1LM
545-5200	Variset Select White Vinyl Primer	D.91CG	D4.5PRS	C-3.42LM	C-18.1LM
545-5201	Variset Select Neutral Vinyl Primer	D.91CG	D4.5PRS	C-3.42LM	C-18.1LM
131-53XX	Variset Select Clear Tint Base Topcoat 5, 20, 35, 90	D.91CG	D4.5PRS	C-3.42LM	C-18.1LM

AWI specifications



AWI section #5 finishing – new format

System - 1	Lacquer, Nitrocellulose
System - 2	Lacquer, Pre-Catalyzed
System - 3	Lacquer, Post-Catalyzed
System - 4	Latex Acrylic, Water Based
System - 5	Varnish, Conversion
System - 6	Oil, Synthetic Penetrating
System - 7	Vinyl, Catalyzed
System - 8	Acrylic Cross Linking, Water Based
System - 9	UV Curable, Acrylated Epoxy, Polyester or Urethane
System - 10	UV Curable, Water Based
System - 11	Polyurethane, Catalyzed
System - 12	Polyurethane, Water Based
System - 13	Polyester, Catalyzed

Varicure® Select

Comparison of AWI System 2 Pre-Catalyzed Lacquer to AWI System 5 for Conversion Varnish

Varicure Select Vinyl Sealer
Varicure Select Topcoat

	Varicure	System number – transparent finishes													Varicure Select
		1	2	3	4	5	6	7	8	9	10	11	12	13	
Vinegar	5	3	4	5	4	5	3	5	4	5	5	5	4	5	5
Lemon Juice	5	3	4	5	4	5	3	5	4	5	5	5	4	5	5
Orange Juice	5	3	4	5	4	5	3	5	4	5	5	5	4	5	5
Catsup	5	3	4	5	4	5	2	5	4	5	5	5	4	5	5
Coffee	5	3	4	5	4	5	2	5	4	5	5	5	4	5	5
Olive Oil	5	2	3	5	3	5	2	5	4	5	5	5	4	5	5
Boiling Water	5	3	4	5	4	5	3	5	4	5	5	5	4	5	5
Cold Water	5	5	5	5	5	5	3	5	4	5	5	5	4	5	5
Nail Polish Remover	2	1	2	3	2	4	1	2	2	5	5	4	3	4	4
Household Ammonia	4	3	4	5	4	5	2	4	2	5	5	5	4	5	5
VM&P Naptha	5	3	4	5	4	5	1	4	4	5	5	5	4	5	5
IPA	3	1	2	3	1	5	2	4	3	5	5	5	4	5	4
Wine	5	3	4	5	4	5	2	4	4	5	5	5	5	5	5
Windex	4	3	3	4	3	5	2	3	2	5	4	5	4	5	4
409 Cleaner	1	3	3	4	4	5	1	4	3	5	5	5	4	5	4
Lysol	4	3	5	5	4	5	2	4	4	5	5	5	4	5	4
33% Sulfuric Acid	5	3	4	5	3	5	1	4	4	5	5	5	4	5	5
77% Sulfuric Acid	5	1	2	3	1	1	1	2	2	4	3	4	3	4	4
28% Ammonium Hydroxide	5	1	2	3	1	5	1	4	2	5	5	5	3	5	5
Gasoline	5	1	2	5	2	5	1	4	4	5	5	5	4	4	5
Murphy's Oil	5	5	5	5	5	5	2	4	5	5	5	5	5	5	5
Vodka	1	3	4	5	4	5	2	4	4	5	5	5	4	5	5
1% Detergent	5	3	4	5	4	5	3	4	4	5	5	5	5	5	5
10% TSP	5	3	4	5	4	4	1	5	4	5	5	5	5	5	5
Subtotal	104	65	86	110	82	114	46	100	85	119	117	118	97	117	114
Wear	3	2	3	4	2	5	1	4	4	5	5	5	5	4	4
Cold Check	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Adhesion	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Score	117	77	99	124	94	129	57	114	99	134	132	133	112	131	128

Other specific performance characteristics



	Varicure	Varicure Select
Mustard 1 hr.	5	5
Mustard 24 hrs.	4	5
Iodine	3	4
Black Dye	3	5
Ethanol	2	5
Bleach	5	5
Grape Juice	5	5
Acetone 5 min.	2	4
Hand Sanitizer	3	4
Total	32	42
Acetone Wipe after 24 hrs. air dry	<10	80
Acetone Wipe after 48 hrs. air dry	<10	125
Acetone Wipe 14 days	140	200+

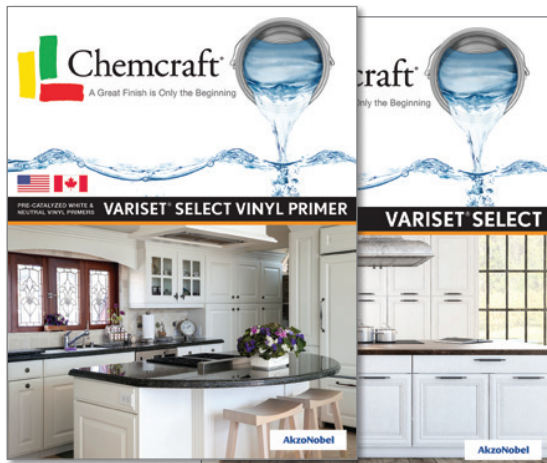
Variset® Select

Comparison of AWI System 2 Pre-Catalyzed Lacquer to AWI System 5 for Conversion Varnish

Variset Select Vinyl Primer
Variset Select Topcoat

	System number – transparent finishes													Variset Select
	Variset	1	2	3	4	5	7	8	9	10	11	12	13	
Vinegar	4	3	4	5	4	5	5	4	5	5	5	4	5	5
Lemon Juice	5	3	4	5	4	5	5	4	5	5	5	4	5	5
Orange Juice	5	3	4	5	4	5	5	4	5	5	5	4	5	5
Catsup	4	3	4	5	4	5	5	4	5	5	5	4	5	5
Coffee	3	3	4	5	4	5	5	4	5	5	5	4	5	3
Olive Oil	5	2	3	5	3	5	5	4	5	5	5	4	5	5
Boiling Water	5	3	4	5	4	5	5	4	5	5	5	4	5	5
Cold Water	5	5	5	5	5	5	5	4	5	5	5	4	5	5
Nail Polish Remover	3	1	2	3	2	4	2	2	5	5	4	3	4	4
Household Ammonia	4	2	4	5	4	5	4	2	5	5	5	4	5	5
VM&P Naphtha	5	3	4	5	4	5	4	4	5	5	5	4	5	5
IPA	3	1	2	3	1	5	4	3	5	5	5	4	5	4
Wine	5	3	4	5	4	5	4	4	5	5	5	5	5	5
Windex	2	3	3	4	3	5	3	2	5	4	5	4	5	3
409 Cleaner	3	3	3	4	4	5	4	3	5	5	5	4	5	3
Lysol	2	3	5	5	4	5	4	4	5	5	5	4	5	4
33% Sulfuric Acid	5	3	4	5	3	5	4	4	5	5	5	4	5	4
77% Sulfuric Acid	4	1	2	3	1	1	2	2	4	3	4	3	4	4
28% Ammonium Hydroxide	5	1	2	3	1	5	4	2	5	5	5	3	5	5
Gasoline	5	1	2	5	2	5	4	4	5	5	5	4	4	5
Murphy's Oil	4	5	5	5	5	5	4	5	5	5	5	5	5	5
Vodka	3	3	4	5	4	5	4	4	5	5	5	4	5	4
1% Detergent	5	3	4	5	4	5	4	4	5	5	5	5	5	5
10% TSP	5	3	4	5	4	4	5	4	5	5	5	5	5	5
SUBTOTAL	99	64	86	110	82	114	100	85	119	117	118	97	117	108
Wear	3	1	1	3	2	5	4	4	4	5	4	4	4	4
Cold Check	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Adhesion	5	5	5	5	5	5	5	5	5	5	5	5	5	5
TOTAL SCORE	112	75	97	123	94	129	114	99	133	132	132	111	131	122

Other specific performance characteristics



	Variset	Variset Select
Mustard 1 hr.	4	5
Mustard 24 hrs.	3	5
Iodine	3	4
Black Dye	3	5
Ethanol	2	5
Bleach	5	5
Grape Juice	5	5
Acetone 5 min.	2	4
Hand Sanitizer	3	4
TOTAL	30	42
Acetone Wipe after 24 hrs. air dry	<10	40
Acetone Wipe 14 days	<40	200+
Acetone Wipe 14 days	140	200+

Varicure® Select sheen blending chart

431-5205 Varicure® Select Pre-Catalyzed Clear Topcoat – Flat

431-5290 Varicure® Select Pre-Catalyzed Clear Topcoat – Gloss

This chart represents the blending of 431-5205 Varicure Select Pre-Catalyzed Clear Topcoat with 431-5290 Varicure Select Pre-Catalyzed Clear Topcoat High Gloss to achieve various sheens.

Tinting should be done with the 827- line of Chemcraft colorants and should not exceed 10% by weight to ensure good film integrity.

Target gloss	Liquid parts	
	Varicure Select High Gloss	Varicure Select Flat
	431-5290	431-5205
95	1	0
90	20	1
85	10	1
80	5	1
75	4	1
70	3	1
65	2	1
60	3	2
55	4	3
50	1	1
45	3	4
40	2	3
35	1	2
30	2	5
25	1	3
20	1	4
15	1	6
10	1	10
5	0	1

- All sheens are checked with a Gardner Micro Gloss Meter at a 60° angle
- This chart is to be used as a benchmark guide only. Sheens can vary depending on the “initial gloss” of each lot of material when read at 60° by QC where the variance is 2°
- **FOR REFERENCE USE ONLY**

Varicure® Select Flattening paste addition chart

431-52XX Varicure® Select Pre-Catalyzed Clear Topcoat

Add the listed amount of flattening paste in ounces to one gallon of 90 sheen product to reach the desired sheen level. To reduce the gloss of a 90 sheen product to a 20 sheen may require a lot of flattening paste.

The extra solvent in the paste could reduce the viscosity and the solid of the coating excessively.

The flattening paste chart is a good tool to reduce the gloss of any coating for 10 to 20 degrees maximum.

For example, if one wants to sheen down 431-5250 to 431-5230, use the number listed for the 30 sheen (4.5) to subtract the number listed for the 50 sheen (2.4).

This equals 2.1. Add 2.1 oz of 870-1432 Flattening Paste per gallon of 431-5250 to make 431-5230.

Gloss	Varicure Select
	431-52XX
90	0
70	1.0
60	1.4
50	2.4
40	2.8
35	3.5
30	4.5
20	6.7
10	9.5

Disclaimer: Product information and suggestions contained in this data sheet are intended as a guide to users. It is offered as accurate and reliable data.

However, because of unique customer applications and conditions beyond our control, AKZO NOBEL COATINGS, INC. makes no guarantees with respect to results obtained nor undertakes any obligation or liability of any kind based upon facts presented.

Disclosure of ideas and suggested practices contained herein are not to be taken as a license to operate under, or as a recommendation to infringe any patents.

Reasonable error tolerances are to be expected on all data items. Refer to the product SDS for safety information.

Varicure® Select Tint paste selection chart

Product code	Description	Coating type	844 line	866 line	888 line	853 line	Max. Tint by vol.	Max. Tint oz/gal	% by vol.
431-5202	Varicure Select Vinyl Sealer	Pre-Catalyzed	X	X			7.5%	10	3%
431-52XX	Varicure Select Clear TC	Pre-Catalyzed	X	X			7.5%	10	3%

- * Indicates the tint may be used and % is maximum recommended
- The %'s indicate the recommended maximum tint past percentage

Variset® Select sheen blending chart

131-54XX Variset® Select HH White Topcoat Select Pre-Catalyzed Clear Tint Base Topcoat

This chart represents the blending of Variset Select White Topcoat 05 flat sheen and 90 high gloss and the blending of Variset Select Clear Tint Base Topcoat 05 flat and 90 high gloss to achieve various sheens for both of these products

Tinting should be done with the 827- line of Chemcraft colorants and should not exceed 10% by weight to ensure good film integrity.

Target gloss	Liquid parts			
	Variset Select HH White High Gloss 131-5490	Variset Select HH White Flat 131-5405	Variset Select Clear Tint Base High Gloss 131-5390	Variset Select Clear Tint Base Flat 131-5305
95	N/A	N/A	1	0
90	N/A	N/A	20	1
85	N/A	N/A	10	1
80	1	0	5	1
75	7	1	4	1
70	5	1	3	1
65	3	1	2	1
60	2	1	3	2
55	3	2	4	3
50	4	3	1	1
45	1	1	3	4
40	3	4	2	3
35	2	3	1	2
30	1	2	2	5
25	1	3	1	3
20	1	4	1	4
15	1	6	1	6
10	1	12	1	10
5	0	1	0	1

- All sheens are checked with a Gardner Micro Gloss Meter at a 60° angle
- This chart is to be used as a benchmark guide only. Sheens can vary depending on the “initial gloss” of each lot of material when read at 60° by QC where the variance is 2°
- **FOR REFERENCE USE ONLY**

Variset® Select Flattening paste addition chart

131-54XX Variset® Select HH White Topcoat Select Pre-Catalyzed Clear Tint Base Topcoat

Add the listed amount of flattening paste in ounces to one gallon of 90 sheen product to reach the desired sheen level. To reduce the gloss of a 90 sheen product to a 20 sheen may require a lot of flattening paste.

The extra solvent in the paste could reduce the viscosity and the solid of the coating excessively.

The flattening paste chart is a good tool to reduce the gloss of any coating for 10 to 20 degrees maximum.

For example, if one wants to sheen down 131-5350 to 131-5330, use the number listed for the 30 sheen (3.9) to subtract the number listed for the 50 sheen (2.2).

This equals 1.7. Add 1.7oz of 870-1432 Flattening Paste per gallon of 131-5350 to make 131-5330.

Gloss	Variset Select HH White	Variset Select Tint Base
	131- 54XX	131-53XX
90	0.0	0.0
70	0.9	0.8
60	1.4	1.2
50	2.3	2.2
40	3.3	2.4
35	3.9	3.1
30	4.5	3.9
20	7.1	5.9
10	10.0	8.4

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Reasonable error tolerances are to be expected on all data items. Refer to the product SDS for safety information.

Variset® Select Tint paste selection chart

Product code	Description	Coating type	844 line	866 line	888 line	853 line	Max. Tint by vol.	Max. Tint oz/gal	Catalyst	% by vol.
131-54XX	Variset Select HH White T/C	Pre-Catalyzed	X	X			7.5%	10	N/A	3%
131-53XX	Variset Select Clear Tint Base	Pre-Catalyzed	X	X			7.5%	10	N/A	3%
545-5200	Variset Select White Vinyl Primer	Pre-Catalyzed	X	X			7.5%	10	873-0870 (Optional)	3%
545-5201	Variset Select Neutral Vinyl Primer	Pre-Catalyzed	X	X			7.5%	10	873-0870 (Optional)	3%

- * Indicates the tint may be used and % is maximum recommended
- The %'s indicate the recommended maximum tint past percentage

Varicure® Select and Variset® Select proposed systems

Opaque Systems

1. Varicure Select Vinyl Sealer and Variset Select Clear Tint Base Topcoat (with tints)
OR Varicure Select Vinyl Sealer and Variset Select White Topcoat

2. Variset Select Clear Tint Base Topcoat (with tints)
OR Variset Select White Topcoat

3. Variset Select Clear Tint Base Topcoat (with tints) and Varicure Select
OR Variset Select White Topcoat and Varicure Select

4. Variset Select Vinyl Primer and Variset Select Clear Tint Base Topcoat (with tints)
OR Variset Select Vinyl Primer and Variset Select White

5. Variset Select Vinyl Primer and Variset Select White and Varicure Select Topcoat
OR Variset Select Vinyl Primer and Variset Select Clear Tint Base Topcoat (with tints)
and Varicure Select Topcoat



United States:
Akzo Nobel Coatings Inc.
1431 Progress Ave., High Point, NC 27260 T: 336.841.5111

Canada:
Akzo Nobel Wood Coatings Ltd.
155 Rose Glen Road N, Port Hope, ON L1A 3V6 T: 905.885.6388
274 Rue St-Louis, Warwick, QC J0A 1M0 T: 819.358.7500

www.chemcraft.com

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