

Selection Guide to AWI Finish Systems

Transparent System Code	TR-0			TR-1			TR-2			TR-3			TR-4			TR-5			TR-6			TR-7			TR-8								
Opaque System Code	Not Available			OP-1			OP-2			OP-3			OP-4			OP-5			OP-6			OP-7			OP-8								
Finish System	Synthetic Penetrating & Simulated Oil			Standard Lacquer			Catalyzed Lacquer			CAB & Water Reducible Acrylic Lacquer*			Conversion Varnish*			Catalyzed Vinyl			Catalyzed Polyurethane			Polyester			Polyester/Polyurethane								
AWI Grades C=Custom, P=Premium, E=Economy	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E	P	C	E
<b>Sheen on 60° Gloss Meter (ASTM D 523)</b>																																	
20 Flat 10° - 25°	X	X	X	X	X	X	X	X	X	X	S	W	W	S	W	W	X	X	X	X	X	X											
40 Satin 30° - 50°				X	X	X	X	X	X	S	W	W	S	W	W	X	X	X	X	X	X	X											
60 Semi-gloss 55° - 75°				X	X	X	X	X	X	S	W	W	S	W	W	X	X	X	X	X	X	X											
90 Gloss 80° - 100°				X	X	X	X	X	X				S	W	W	X	X	X	X	X	X	X	X			X		X					
<b>Effect</b>																																	
Open Pore	X	X	X	X	X	X	X	X	X	S	W	W	S	W	W	X	X	X	X	X	X												
Partially Filled Pore				X	X	X	X	X	X	S	W	W	S	W	W	X	X	X	X	X	X												
Full Filled Effect				X	X		X	X																X			X						
Ease of repair/refinishing	2	1	1	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4			5		5					
<b>Wear Resistance</b>																																	
Wear and moisture resistance ASTM D870	1	4	5	2	3	4	1	2	3	2	3	4	1	1	2	1	1	2	1	1	2	1	1	2	1		1						
Print resistance (8 oz. Duck) 2PSI at room temperature ASTM D2091	1	4	5	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	2	1		1						
Abrasion resistance Tabor Abrasor ASTM D4060	1	5	5	3	3	4	2	2	3	2	3	3	2	3	4	1	1	2	1	1	2	1	1	2	1		1						
Adhesion (crosshatch) ASTM D3359	1	2	2	1	2	3	1	2	3	2	2	3	1	2	2	1	1	2	1	1	2	1	1	2	1		1						
Cold check resistance ASTM D1211	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	2	1		1						
Impact resistance (1 lb. Steel ball - 17 inches)	1	1	1	2	2	3	1	2	3	2	2	2	1	2	3	1	1	2	1	1	2	1	1	2	1		1						
<b>Chemical Resistance (ASTM D1308)1</b>																																	
2% caustic solution	2	4	5	4	4	5	2	2	3	4	4	4	1	2	3	1	2	2	1	1	1	1	1	1	1		1						
10% sodium hydroxide	2	4	5	4	4	5	2	3	4	4	4	4	2	3	4	1	2	2	1	1	1	1	1	1	1		1						
10% tri sodium phosphate	2	4	5	4	4	5	2	3	4	4	4	4	2	3	4	1	2	2	1	1	1	1	1	1	1		1						
Glacial acetic acid	2	5	5	4	4	5	3	3	4	4	4	4	2	3	4	1	2	2	1	1	1	1	1	1	1		1						
50% sulphric acid	2	5	5	3	3	4	2	2	3	4	4	4	2	2	4	1	2	2	1	1	1	1	1	1	1		1						
28% ammonium hydroxide	2	5	5	4	4	5	3	3	3	4	4	4	2	2	4	1	2	2	1	1	1	1	1	1	1		1						
95% ethyl alcohol	2	5	5	4	4	5	2	3	4	4	4	4	2	2	4	1	2	2	1	1	1	1	1	1	1		1						
<b>Household chemical resistanc (ASTM D1308 except detergent)</b>																																	
Grease (cooking oil)	1	5	5	2	3	4	1	2	2	3	3	3	1	2	3	1	1	1	1	1	1	1	1	1	1		1						
Hot coffee	1	5	5	2	3	4	1	1	1	3	3	3	1	2	3	1	1	1	1	1	1	1	1	1	1		1						
Orange juice	1	4	5	2	3	4	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1		1						
Tomato juice	1	4	5	2	3	4	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1		1						
Mustard	1	4	5	2	3	4	1	1	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1		1						
Nai polish & remover	2	5	5	5	5	5	3	4	5	5	5	5	2	3	3	1	2	2	1	1	1	1	1	1	1		1						
Detergent (soap) ASTM D2248	1	5	5	3	4	5	1	2	3	4	4	4	1	2	2	1	1	1	1	1	1	1	1	1	1		1						
<b>Flame Spread (✓ = Check with chemical manufacturer for results of ASTM E-84)</b>																																	
Effects wood flame spread	No	No	No	✓	✓	✓	✓	✓	✓	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	✓		✓					

**Premium Grade:** The Grade specified when the highest degree of control over the quality of workmanship, materials, installation and execution of the design intent is required. Usually reserved for special projects, or feature areas within a project.  
**Custom Grade:** The Grade specified for most conventional architectural woodwork. This Grade provides a well defined degree of control over the quality of workmanship, materials and installation of a project. The vast majority of all work produced is Custom Grade.  
**Economy Grade:** The Grade which defines the minimum expectation of quality, workmanship, materials and installation within the scope of AWI Standards.