

## Composites

### CHEMICAL AND STAIN RESISTANCE TESTING

#### GENERAL CHEMICAL RESISTANCE

Products	Dilute Acids (less than 30%)	Concentrated Acids (30% or more)	Weak Alkalis	Strong Alkalis	Chlorinated Solvents Aldehydes + Ketones Esters
Glasbord Products	G to E	G to E	E	G	G to E
Sequentia Products					

KEY | E=excellent, G=good, F=faire (test before using), P=poor, not recommended

### Resistance to Specific Chemicals

#### GENERAL NOTES

- Ratings are based on a combination of visual observations, and mechanical strength test results.
- All testing was done at 77°F +/- 10°F. Performance ratings are not necessarily valid outside of that temperature range.
- Test ratings are based on white material; non-white panels could show additional visual changes.
- Test was run per Crane Composites product development procedure #8125: surface chemical resistance. In this procedure the chemicals are exposed to the surface of the panel for 7 days.

#### RATING KEY

- E (Excellent): Suitable for use in most exposure conditions.
- G (Good): Probably suitable for use; testing under specific exposure conditions is suggested.
- F (Fair): Possibly unsuitable for use; testing under specific exposure conditions is recommended.
- P (Poor): Unsuitable for use in most exposure conditions.
- C: Color change
- NT: Not tested

Chemical	Glasbord	Sequentia	Sanigrd	General Comments
Acetic Acid, Concentrated	E	P	E	Caused Sequentia panels to turn yellow and erode
Acetic Acid, 5%	E	E	E	
Ammonium Hydroxide, Concentrated	E	C	C	Caused Sequentia + Sanigrd to turn yellow
Ammonium Hydroxide, 10%	C	C	C	Caused all to turn yellow
Aniline	P1	P	C	Caused all to turn yellow
Bleach Solution	C	C	E	Caused Glasbord + Sequentia to turn yellow
Citric Acid, 10%	E	E	C	Caused Sanigrd to turn yellow
Detergent Solution	C	E	E	Caused Glasbord + Sequentia to turn yellow
Distilled Water	E	E	E	
Ethyl Acetate	P <sup>1</sup>	P	E	
Ethyl Alcohol, 95%	C	G	NT	Caused Glasbord + Sequentia to turn yellow
Ethyl Alcohol, 50%	G <sup>1</sup>	E	NT	Caused Sequentia panels slight reduction in strength
Formaldehyde	E	E	E	
Heptane	F	G	E	Caused Sequentia panels slight reduction in strength
Hydrochloric Acid, 10%	E	E	E	
Hydrochloric Peroxide, 3%	C	E	E	Caused Glasbord + Sequentia to turn yellow
Isooctane	G <sup>1</sup>	G	E	Caused Sequentia panels slight reduction in strength
Lactic Acid, 10%	E	E	E	

## CHEMICAL + STAIN RESISTANCE TESTING

Chemical	Glasbord	Sequentia	Sanigrid	General Comments
Mineral Oil	E	E	G	Sanigrid absorbed some oil
Nitric Acid, 40%	E	G	C	Sanigrid turned slight yellow/blue
Nitric Acid, 10%	C	E	C	Sanigrid turned slight yellow/blue Caused Sequentia panels slight reduction in strength
Oleic Acid	G <sup>1</sup>	E	G	Sanigrid absorbed some oil
Olive Oil	E	E	G	Sanigrid absorbed some oil
Potassium Iodide Solution, 10%	E	C	G	Sanigrid turned red   Sequentia turned yellow
Soap Solution	E	E	C	
Sodium Chloride Solution, 10%	P <sup>1</sup>	E	E	Caused Glasbord + Sequentia to turn yellow
Sodium Chloride Solution, 60%	P	G	E	Caused Sequentia panels slight reduction in strength
Sodium Hydroxide Solution, 10%	P	NT	E	Caused Glasbord + Sequentia to turn yellow
Sodium Hydroxide Solution, 1%	P	NT	E	Caused Glasbord + Sequentia to turn yellow
Sodium Hydroxide Solution, 4-6%	E	NT	E	
Sulfuric Acid, 30%	G1	G	NT	Caused Sequentia panels slight reduction in strength
Sulfuric Acid, 3%	G <sup>1</sup>	E	E	
Toluene	G1	P	E	Caused Glasbord + Sequentia to turn yellow
Transformer Oil	G <sup>1</sup>	NT	NT	Sanigrid absorbed some oil
Turpentine	G1	E	G	

## Stain Resistance to Food + Miscellaneous Products

### KEY

- Unaffected = wipes off easily with damp cloth and mild soap; no color or surface change
- Superficial = stain removes easily with water and/or mild abrasive
- Considerable = stain not completely removed.

### TESTING INFORMATION

- ASTM D2299 | test stain resistance of applied coating
- ASTM D1308 | test stain resistance of a product's natural surface

Stain (ASTM D2299)	Glasbord (ASTM D2299)	Glasbord (ASTM D1308)	Sequentia (ASTM D1308)
Blood (beef)	Superficial	Superficial	Superficial
Brown Show Polish	Considerable	Considerable	Considerable
Butter	Unaffected	Unaffected	Unaffected
Crayon	Superficial	Superficial	Superficial
Mustard	Unaffected	Superficial	Superficial
Oil (crankcase)	Superficial	Superficial	Superficial
Potatoes (white)	Unaffected	Unaffected	Unaffected
Red Cabbage	Unaffected	Unaffected	Unaffected
Tea	Unaffected	Unaffected	Unaffected
Tomato Acid	Unaffected	Unaffected	Unaffected

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