A Crane Co. Company

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CHEMICAL & STAIN RESISTANT TESTING

General Chemical Resistance

Where exposure to a chemical will be prolonged or at elevated temperatures, tests should be performed to prove the suitability of the product for that specific use.

Product	Dilute Acids (less than 30%)	Concentrated Acids (30% or more)	Weak Alkalis	Strong Alkalis	Chlorinated Solvents Aldehydes & Ketones Esters
Kemlite L-1062 panel Glasbord«-P panel Fire-X Glasbord» panel Kemply» panel (surface only) Glasbord REI panel	G to E	G to E	G	. Е	G to E

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 Kemlite product development procedure #8125: surface chemical resistance. In this procedure the chemicals are exposed to the surface of the panel for 7 days.

Ratings 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	Panels	Sanigrid	General Comments
Acetic Acid, concentrated	Е	E	
Acetic Acid, 5%	E	E	
Ammonium Hydroxide, concentrated	E	C	Caused Sanigrid _® II to turn yellow
Ammonium Hydroxide, 10%	С	C	Caused both to turn yellow
Aniline	P ¹	C	Caused both to turn red
Bleach Solution	C	E	Caused panels to turn yellow
Citric Acid, 10%	E	C	Caused Sanigrid II to turn yellow
Detergent Solution	С	E	Caused panels to turn yellow
Distilled Water	E	E	
Ethyl Acetate	P ¹	E	
Ethyl Alcohol, 95%	. С	NT	Caused panels to turn yellow
Ethyl Alcohol, 50%	G'	NT	
Formaldehyde	E	E	
Heptane	F	E	
Hydrochloric Acid, 10%	E	E	
Hydrogen Peroxide, 3%	C	Ε	Caused panels to turn yellow
sooctane	G¹	E	Section of the Management of the Control of the Con
_actic Acid, 10%	E	E	
Mineral Oil	E	G	Sanigrid II absorbed some oil
Nitric Acid, 40%	E	С	Sanigrid II turned slight yellow/blue
Nitric Acid, 10%	E	C	Sanigrid II turned slight yellow/blue
Oleic Acid	E	G	Sanigrid II absorbed some oil

Chemical	Panels	Sanigrid	General Comments	
Olive Oil	Е		Sanigrid II absorbed some oil	Anadominis
Potassium Iodide Solution, 10%	E	G	Sanigrid II turned red	
Soap Solution	E	C		
Sodium Chloride Solution, 10%	P 1	E	Caused panels to turn yellow	
Sodium Chloride Solution, 60%	P	E		
Sodium Hydroxide Solution, 10%	P	E	Caused panels to turn yellow	10000000000
Sodium Hydroxide Solution, 1%	P	E	Caused panels to turn yellow	
Sodium Hypochlorite Solution, 4-6%	E	E		
Sulfuric Acid, 30%	G1	NT	II	Announces
Sulfuric Acid, 3%	G¹	E		
Toluene	G ¹	E	Caused panels to turn yellow	
Transformer Oil	G ¹	NT	Sanigrid absorbed some oil	
Turpentine	G ¹	G		

^{*}This test data included surface tests for Glasbord-P with Surfaseal, Fire-X Glasbord with Surfaseal, Kemlite L1062, Glasbord REI, and Sanigride II.

Stain Resistance To Food And Miscellaneous Products

Stain resistance of Glasbord-P with Surfaseal, Kemlite L-1062, Glasbord-REI is very similar:

	Surface change		
Stain	ASTM D2299¹ 120°F (50°C), 16 hrs.	ASTM D1308 ² 77°-86°F (25°-30°C), 24 hrs.	
Blood (beef)	Superficial	Superficial	
Brown Shoe Polish	Considerable	Considerable	
Butter	Unaffected	Unaffected	
Crayon	Superficial	Superficial	
Mustard	Unaffected	Superficial	
Oil (crankcase)	Superficial	Superficial	
Potatoes (white)	Unaffected	Unaffected	
Red Cabbage	Unaffected	Unaffected	
Tea	Unaffected	Unaffected	
Tomato Acid	Unaffected	Unaffected	

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

- 1) ASTM D2299 tests stain resistance of applied coating
- 2) ASTM D1308 tests stain resistance of a product's natural surface

¹ Mechanical properties were not strongly affected.