

Chemical and Technical Information

Over 20 years research and development by LG engineers, means that we are producing high-tech quality products.

Thanks to the new Thermalcure-technology, developed by LG, HI-MACS® performs better than the standard in Solid Surface.

For example you save precious time because it is easier to sand.

And thanks to the Thermalcure-technology used during production, HI-MACS® has excellent heat-resistance.

Chemical resistance

HI-MACS® is a fully homogenous material with no pores and is thus simple and easy to clean.

CLASS	STAINING AGENT	APPLICATION TIME	EVALUATION OF G002 CHANGES	EVALUATION OF S028 CHANGES
GROUP 1	Water	16h – 24h	5 to 4	5 to 4
	Toothpaste			
	Hand cream			
	Natural fruit and vegetable juice			
	Lemonade and fruit drinks			
	Meats and sausages			
	Animal and vegetable fats and oils			
	Yeast suspension in water			
	Salt (NaCl) solutions			
	Mustard			
	Lyes, soap solutions			
	Cleaning solution			
	Alcoholic beverages			
	Phenol and chloramine-T disinfectants			
Citric acid (10% solution)				
GROUP 2	Coffee (120gr coffee per ltr. water)	16h	5	4 to 5
	Black tea (9gr tea per ltr. water)			
	Milk (all types)			
	Cola beverages			
	Wine vinegar			
	Alkaline-based cleaning agents (10% in water)			
	Hydrogen peroxide (3% solution)			
	Ammonia (10% solution of commercial concentrate)			
	Lipstick			
	Water colours			
	Laundry marking inks			
	Ball point inks			
	GROUP 3			
*Hydrogen peroxide (30% solution)				
*Acetone				
Trichlorothane				
Other organic solvents				
Concentrated vinegar (30% acetic acid)				
Bleaching agents and sanitary cleaners containing them				
Hydrochloric acid based cleaning agents				
Tincture of iodine				
Boric acid				
Lacquers and adhesives (except fast-curing materials)				
Amidosulfonic acid descaling agents (≤10% solution)				
Nail varnish				
Nail varnish remover				
Stain or paint remover based on organic solvents				
GROUP 4	*Acetic acid (5% solution)	20min.	5	4

Tests carried out in accordance to EN ISO 19712 for Solid Surface material, please see table (left) for results.



Evaluation

RATING LEVEL	DESCRIPTION
Rating 5	No visible change
Rating 4	Slight change in gloss and/or colour, only visible at certain viewing angles
Rating 3	Moderate change in gloss and/or colour
Rating 2	Marked change in gloss and/or colour
Rating 1	Surface distortion and/or blistering

a = Acids and alkalis, in concentrations stronger than those shown in group 3, which can be contained in commercial cleaning agents, can cause surface damage or marking, even with very short contact times. Any spillage of such materials should be washed off immediately.