

## HIGH-PRESSURE LAMINATE, COMPACT LAMINATE & MELAMINE-FACED BOARD



The hard, non-porous surface of the HPL and Compact ranges lends them very good stain and chemical resistance properties (as per EN438). The DURCON<sup>®</sup> Chemical compact range is more resistant to chemical products and detergents. Because the melamine-faced board is pressed at low pressure, it has lower resistance properties.

### GRADING OF RESULTS

RATING	EFFECT OF TEST AFTER CLEANING
<b>5</b>	No effect
<b>4</b>	Slight change in colour or sheen visible from certain angles only
<b>3</b>	Moderate change in colour and/or sheen
<b>2</b>	Significant change in colour and/or sheen
<b>1</b>	Superficial damage and/or blistering
<b>0</b>	Avoid

STAINING AGENT	CONCENTRATION		LAB COMPACT	HPL/COMPACT	COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
	CONTACT TIME		24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H

CONCENTRATED ACIDS									
Sulphamic acid	NH <sub>2</sub> SO <sub>3</sub> H	≥ 10 %	-	0	2	0	-	0	0
Arsenic acid	H <sub>3</sub> AsO <sub>4</sub>	≥ 10 %	-	0	2	0	-	0	0
Hydrochloric acid	HCl	≥ 10 %	5	0	2	0	-	0	0
Nitric acid	HNO <sub>3</sub>	≥ 10 %	5	0	2	0	-	0	0
Perchloric acid	HClO <sub>4</sub>	≥ 10 %	-	0	2	0	-	0	0
Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	≥ 10 %	5	0	2	0	-	0	0
Sulphuric acid	H <sub>2</sub> SO <sub>4</sub>	≥ 10 %	5	0	2	0	-	0	0
Hydrobromic acid	HBr	≥ 10 %	-	0	2	0	-	0	0
Chromic acid	Cr <sub>2</sub> O <sub>7</sub> H <sub>2</sub>	≥ 10 %	4	0	2	0	-	0	0
Hydrofluoric acid	HF	≥ 10 %	4	0	2	0	-	0	0
Chromic/sulphuric acid	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> +H <sub>2</sub> SO <sub>4</sub>	≥ 10 %	-	0	2	0	-	0	0
Aqua regia	HNO <sub>3</sub> +HCl (1+3)	≥ 10 %	-	0	2	0	-	0	0
Formic acid	H cooh	Acides forts	4	2	4	-	-	0	0
Picric acid	C <sub>6</sub> H <sub>2</sub> OH(n <sub>2</sub> ) <sub>3</sub>	Acides forts	-	2	4	-	-	0	0
Oxalic acid	Cooh-cooh	Acides forts	-	2	4	-	-	0	0
Acetic acid	CH <sub>3</sub> COOH	Acides faibles	5	4	5	-	-	0	0
Ascorbic acid	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	Acides faibles	-	4	5	-	-	0	0
Aspartic acid	C <sub>4</sub> H <sub>7</sub> O <sub>4</sub> N	Acides faibles	-	4	5	-	-	0	0
Benzoic acid	C <sub>6</sub> H <sub>5</sub> COOH	Acides faibles	-	4	5	-	-	0	0
Boric acid	B(OH) <sub>3</sub>	Acides faibles	-	4	5	-	-	0	0
Cresylic acid	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> COOH	Acides faibles	-	4	5	-	-	0	0
Citric acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	Acides faibles	-	4	5	-	-	0	0
Lactic acid	CH <sub>3</sub> CHOHCOOH	Acides faibles	-	4	5	-	-	0	0
Oleic acid	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	Acides faibles	-	4	5	-	-	0	0
Phenic acid	C <sub>6</sub> H <sub>5</sub> OH	Acides faibles	-	4	5	-	-	0	0
Salicylic acid	C <sub>6</sub> H <sub>4</sub> OHCOOH	Acides faibles	-	4	5	-	-	0	0
Stearic acid	C <sub>17</sub> H <sub>35</sub> COOH	Acides faibles	-	4	5	-	-	0	0
2,3,4,4-Tetrahydroxybutanoic acid	C <sub>4</sub> H <sub>8</sub> O <sub>6</sub>	Acides faibles	-	4	5	-	-	0	0
Uric acid	C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O <sub>3</sub>	Acides faibles	-	4	5	-	-	0	0

- Not tested

STAINING AGENT		CONCENTRATION		LAB COMPACT		HPL/COMPACT		COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
				24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN	
CONTACT TIME											
<b>DILUTE ACIDS</b>											
Sulphamic acid	$\text{NH}_2\text{SO}_3\text{H}$	$\leq 10\%$	-	2	4	-	-	0	0		
Arsenic acid	$\text{H}_3\text{AsO}_4$	$\leq 10\%$	-	2	4	-	-	0	0		
Hydrochloric acid	HCl	$\leq 10\%$	5	2	4	-	-	0	0		
Citric acid	$\text{C}_6\text{H}_8\text{O}_7$	$\leq 10\%$	-	5	5	-	-	3	4		
Hydrofluoric acid	HF	$\leq 10\%$	5	2	4	-	-	0	0		
Nitric acid	$\text{HNO}_3$	$\leq 10\%$	5	2	4	-	-	0	0		
Oxalic acid	$\text{COOHCOOH}$	$\leq 10\%$	-	2	4	-	-	0	0		
Perchloric acid	$\text{HClO}_4$	$\leq 10\%$	-	2	4	-	-	0	0		
Phosphoric acid	$\text{H}_3\text{PO}_4$	$\leq 10\%$	5	2	4	-	-	0	0		
Sulphurous acid	$\text{H}_2\text{SO}_3$	$\leq 10\%$	-	2	4	-	-	0	0		
Sulphuric acid	$\text{H}_2\text{SO}_4$	$\leq 10\%$	5	2	4	-	-	0	0		
Aniline	$\text{C}_6\text{H}_5\text{NH}_2$	$\leq 10\%$	-	2	4	-	-	0	0		
Formic acid	HCOOH	$\leq 10\%$	5	4	5	-	-	0	0		
<b>BASES</b>											
Caustic soda (more than 10%)	NaOH	$\geq 10\%$	5	2	4	-	-	0	0		
Caustic soda (less than 10%)	NaOH	$\leq 10\%$	5	4	5	-	-	3	4		
Ammonium hydroxide	$\text{NH}_4\text{OH}$	$\leq 10\%$	4	4	5	-	-	3	4		
Sodium carbonate	$\text{Na}_2\text{CO}_3$			4	5	-	-	3	4		
<b>GENERAL-PURPOSE REAGENTS</b>											
Petrol	—		5	4	5	-	-	3	4		
Urea	$\text{H}_2\text{NCONH}_2$		-	4	5	-	-	3	4		

- Not tested

STAINING AGENT	CONCENTRATION		HPL/COMPACT		COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
	LAB COMPACT	24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN
CONTACT TIME								

REAGENTS			24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN
Silver nitrate	AgNO <sub>3</sub>		5	2	4	-	-	0	0
Potassium permanganate	KMnO <sub>4</sub>		-	2	4	-	-	0	0
Copper sulphate	CuSO <sub>4</sub>		-	4	5	-	-	0	0
Sodium bisulphite	NaHSO <sub>3</sub>		-	2	4	-	-	0	0
Iron chloride	Cl <sub>2</sub> ou Cl <sub>3</sub>		-	2	4	-	-	0	0
Sodium chloride	NaCl		-	4	5	-	-	0	0
Zinc chloride	ZnCl <sub>2</sub>		5	4	5	-	-	0	0
Esbach's reagent	—		-	2	4	-	-	0	0
Millon's reagent	OHg <sub>2</sub> NH <sub>2</sub> Cl		-	2	4	-	-	0	0
Nylander's reagent	—		-	2	4	-	-	0	0

SOLVENTS			24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN
Butyl acetate	CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub>		-	4	5	-	-	3	4
Ethyl acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>		5	4	5	-	-	3	4
Acetone	CH <sub>3</sub> COCH <sub>3</sub>		5	4	5	-	-	3	4
Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>		5	4	5	-	-	3	4
Tetrahydrofuran	C <sub>4</sub> H <sub>8</sub> O		4	4	5	-	-	3	4
Hexane	C <sub>6</sub> H <sub>14</sub>		-	4	5	-	-	3	4
Ethyl ether	C <sub>2</sub> H <sub>5</sub> -O-C <sub>2</sub> H <sub>5</sub>		5	4	5	-	-	3	4
Trichlorethylene	CHCl=CCl <sub>2</sub>		5	4	5	-	-	3	4
Dimethyl sulphoxide	(CH <sub>3</sub> ) <sub>2</sub> SO		-	4	5	-	-	3	4
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl		4	4	5	-	-	3	4
Benzene	C <sub>6</sub> H <sub>6</sub>		5	4	5	-	-	3	4
Carbon tetrachloride	CCl <sub>4</sub>		5	4	5	-	-	3	4
o-Cresol	CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> OH		4	4	5	-	-	3	4
Dimethylformamide	HCON(CH <sub>3</sub> ) <sub>2</sub>		5	4	5	-	-	3	4
1,2-Dioxane	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>		5	4	5	-	-	3	4
Phenol	C <sub>6</sub> H <sub>5</sub> OH		4	4	5	-	-	3	4
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>		5	4	5	-	-	3	4
Dichloromethane	CH <sub>2</sub> Cl <sub>2</sub>		5	4	5	-	-	3	4

- Not tested

STAINING AGENT		CONCENTRATION		HPL/COMPACT		COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
		LAB COMPACT	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN	
CONTACT TIME		24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN	
<b>ALCOHOLS</b>									
Amyl alcohol = Pentanol	$\text{CH}_3(\text{CH}_2)_4\text{OH}$	5	4	5	-	-	3	4	
Butyl alcohol = Butanol	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	5	4	5	-	-	3	4	
Ethyl alcohol = Ethanol		5	4	5	-	-	3	4	
Isopropyl alcohol = Propanol	$\text{C}_3\text{H}_7\text{OH}$	5	4	5	-	-	3	4	
Methyl alcohol = Methanol	$\text{CH}_3\text{OH}$	5	4	5	-	-	3	4	
<b>PHARMACEUTICAL PRODUCTS AND HEALTHCARE FACILITIES</b>									
Starches	—	-	4	5	-	-	-	-	
Biogel	—	-	4	5	-	-	-	-	
Methylene blue	$\text{C}_{16}\text{H}_{18}\text{N}_3\text{ClS}$	-	2	4	-	-	0	0	
Formaldehyde	$\text{HCHO}$	5	4	5	-	-	-	-	
Hydrogen peroxide (3% vol.)	$\text{H}_2\text{O}_2$	5	4	5	-	-	3	4	
Hydrogen peroxide (up to 30% vol.)	$\text{H}_2\text{O}_2$	5	2	4	-	-	0	0	
Merbromin	$\text{C}_{20}\text{H}_9\text{O}_6\text{Br}_2\text{HgNa}_2, 3\text{H}_2\text{O}$	-	2	4	-	-	0	0	
Potassium iodide	KI	-	2	4	-	-	0	0	
Culture medium (standard I and II)		-	4	5	-	-	-	-	
Chloroform	$\text{CHCl}_3$	5	4	5	-	-	-	-	
Eosin, fuchsin solution	$\text{C}_{19}\text{H}_{19}\text{N}_3\text{O}$	5	2	4	2	2	0	3	
Betadine liquid 4%		5	2	4	4	4	0	3	
Betadine gel 10%		5	4	5	4	4	0	3	
Methyl violet	$\text{C}_{24}\text{H}_{28}\text{N}_3\text{Cl}$	-	2	4	-	-	0	0	
Iodine	$\text{I}_2$	4	2	4	-	-	0	0	
Blood	—	5	5	5	-	-	3	4	
Urine	—	5	5	5	-	-	3	4	

- Not tested

STAINING AGENT	CONCENTRATION		HPL/COMPACT		COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
	LAB COMPACT	24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN
CONTACT TIME								

## COSMETIC PRODUCTS

Nail varnish	—		5	5	5	2	4	3	4
Hair dye	—		-	2	4	0	0	0	0
Toothpaste	—		5	5	5	5	5	4	5
Nail polish removers	—		5	5	5	5	5	4	5
Hairspray	—		5	5	5	5	5	4	5
Lipstick	—		5	5	5	4	5	4	5
Shampoo, soap	—		5	5	5	5	5	4	5

## FOODSTUFFS

Vinegar	CH <sub>3</sub> COOH		5	5	5	4	5	4	5
Wine	—		5	5	5	4	5	4	5
Tea	—		5	5	5	4	5	4	5
Cola	—		5	5	5	4	5	4	5
Beer	—		5	5	5	4	5	4	5
Sugar and syrup	—		5	5	5	4	5	4	5
Tomato paste	—		5	5	5	4	5	4	5
Coffee	—		5	5	5	4	5	4	5
Caffeine	C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>		5	5	5	4	5	4	5
Ketchup	—		5	5	5	4	5	4	5
Mustard	—		5	5	5	4	5	4	5
Animal and vegetable oils, fats	—		5	5	5	4	5	4	5
Milk	—		5	5	5	4	5	4	5
Baking powders, yeasts	—		5	5	5	4	5	4	5
Table salt	NaCl		5	5	5	4	5	4	5
Coloured spices (turmeric, paprika, etc.)	NaCl		5	4	5	3	4	3	4

- Not tested

STAINING AGENT		CONCENTRATION		LAB COMPACT		HPL/COMPACT		COMPACT (COLOURED CORE)		MELAMINE-FACED BOARD	
				24 H (SEFA test)	16 H	10 MIN	16 H	10 MIN	16 H	10 MIN	
CONTACT TIME											
<b>HOUSEHOLD PRODUCTS</b>											
Bleach	NaOCl		-	2	4	2	4	3	4		
Watercolours	—		5	4	5	0	4	3	4		
Shoe polish	—		5	4	5	0	4	3	4		
Chalk	CaCO <sub>3</sub>		5	4	5	0	4	3	4		
Ink	—		5	4	5	0	4	3	4		
Insecticides	—		5	4	5	0	4	3	4		
<b>CLEANING PRODUCTS</b>											
Waxes	—		-	2	4	2	4	2	3		
Washing powders	—		5	5	5	5	5	4	5		
Household detergent without an abrasive	—		5	5	5	5	5	4	5		
Descaling agent	—		-	2	4	2	4	2	3		
Alcohol-based window cleaner			5	5	5	5	5	4	5		
White spirit, stain remover			5	5	5	5	5	3	4		
<b>CONSTRUCTION PRODUCTS</b>											
Kaolin clay	Al <sub>2</sub> O <sub>3</sub> , 2SiO <sub>2</sub> , 2H <sub>2</sub> O		-	4	5	-	-	2	3		
Grease	—		-	4	5	-	-	2	3		
Carbon	C		-	4	5	-	-	2	3		
Activated carbon	C		-	4	5	-	-	2	3		
Slaked lime	Ca(OH) <sub>2</sub>		-	4	5	-	-	2	3		
Cement	—		-	4	5	-	-	2	3		
Water-soluble glues	—		-	4	5	-	-	2	3		
Paints with hardener			-	2	4	-	-	2	3		
Glues with hardener	—		-	2	4	-	-	2	3		

- Not tested