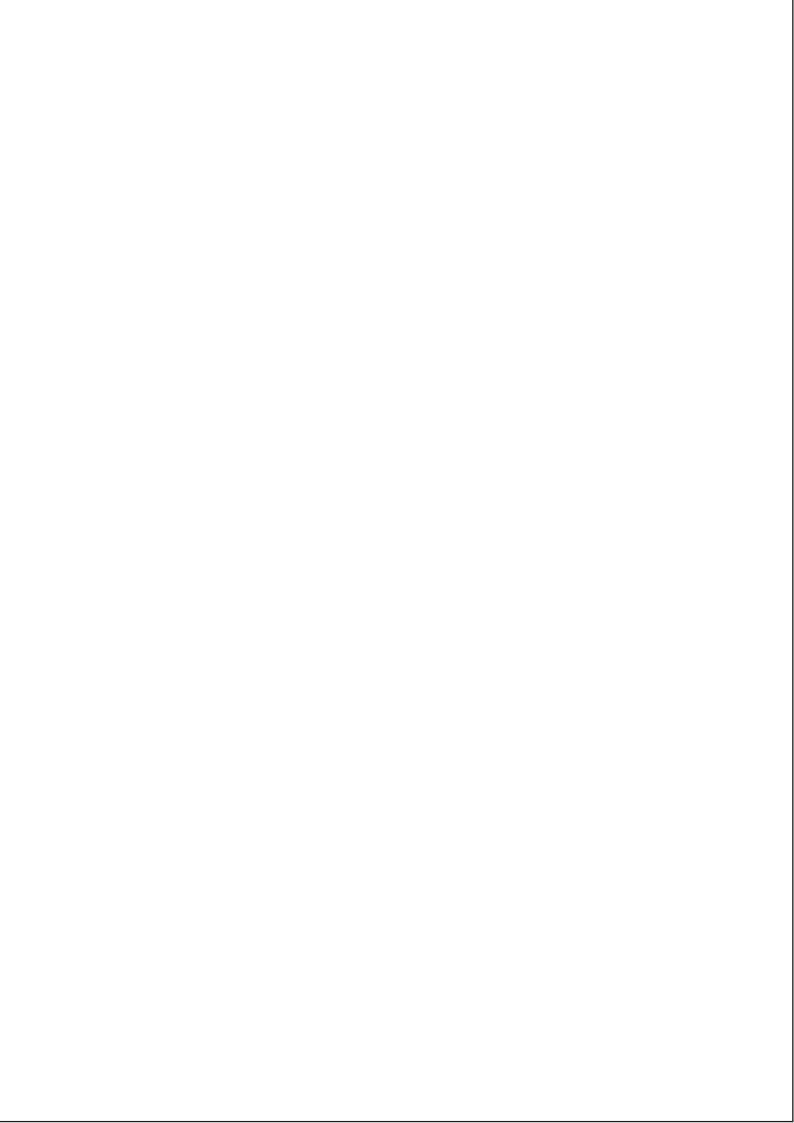


FORMICA COLLECTION LABORATORIES





The perfect high-performance products for demanding environments

Chemtop®2 and **Formica® Compact** are totally complementary materials and, since the decor range is common to both materials, products can be 'mixed and matched' to enable interior solutions that are both cost-efficient and perfectly suited to specific project needs.

Chemtop²

CHEMICAL RESISTANT LAMINATES by FORMICA GROUP

Exceptional performance for critical applications demanding high levels of chemical and stain resistance.

Chemtop2 technology features an advanced chemical-resistant surface engineered for demanding areas where relatively harsh acids, alkalis, corrosive salts or other destructive, staining substances are used as in laboratory work surfaces, fume cupboards and splashbacks.

Formica® Compact

STRUCTURAL INTERIOR LAMINATES by FORMICA GROUP

The perfect choice for areas where durability, hygiene and cleanliness are important, with moderate resistance to everyday chemicals.

Formica Compact laminate provides an inherently high level of chemical resistance and superb physical performance where risks from harsher chemicals are reduced such as shelving, screening, computer workstations and ante-room furniture.







Two products. One range.

A practical range of designs for most applications and working environments.



Printed samples are shown at approximately 1:1 scale



Chemtop2

Formica® Compact

STRUCTURAL INTERIOR LAMINATES BY FORMICA GROU

	Code Name		Grade	Sheet size (mm)		Grade	Sheet size (mm)	
				3050×1300×16	3660×1525×16		3050×1300×16	3660×1525×16
	F1787	Grey Dust	CH1	DTM	DTM	CGS	MAT	MAT
5.70,00	F1936	Lava Dust	CH1	DTM	DTM	CGS	MAT	MAT
	F2255	Polar White	CH1	DTM	DTM	CGS	MAT	MAT
	F7507	Folkestone Grafix	CH1	DTM	DTM	CGS	MAT	MAT
	F7508	Mouse Grafix	CH1	DTM	DTM	CGS	MAT	MAT
	F7522	Blue Silk Grafix	CH1	DTM	DTM	CGS	MAT	MAT
	F7927	Folkestone	CH1	DTM	DTM	CGS	MAT	MAT
	F7932	Antique White	CH1	DTM	DTM	CGS	MAT	MAT

	Grade description	Grade designation	Grade code
*	Chemtop ² 2 ORMOU, PRESENT LANGUES by TORMAG DROUP		
	Compact, General Purpose, Standard *Advanced resistance to harsh chemicals (16mm nominal thickness). Black core (one good side).	CH1	CU
	Formica* Compact SITUACITANA, INTERPORT, LAMBACETE By FORMACA APOLITY		
	Compact, General Purpose, Standard High Pressure Decorative Laminate. Provides resistance to over 40 chemicals (16mm nominal thickness).	CGS	21

	Finish description	Finish designation	Finish code
Сhemtop2 очемом резолать именте вы голимом автомя	Matte	DTM	DT
Formica* Compact	Matte 58	MAT	58

Chemtop®2 and **Formica® Compact** laminate are also available, on a make-to-order basis, in thin (0.7mm) postforming grade HPL (CTM finish, CHT grade). This enables the creation of work surfaces and other bonded components with integral upstands and down stands, eliminating joints and seams at critical positions in the finished installations.







Chemtop®2 provides exceptional performance against harsh chemicals and stains, surpassing the stain resistance requirements of EN 438:2005. It has been additionally tested against a variety of harsh chemicals and reagents with the test procedure of 5 drops of each reagent being applied on the surface and covered with a watch-glass. The chemicals were tested over 24 hours with no effects. Reagents marked with an asterisk (*) may have caused slight changes in gloss or colour depending on the duration of exposure.

Acids

Hydrochloric acid 10% Hydrochloric acid 37% Sulphuric acid 33% Sulphuric acid 98%* Nitric acid 30% Nitric acid 65%* Phosphoric acid 85% Acetic acid 99%

Chromic acid 60%

Bases

Ammonium Hydroxide 28%

Biological Stains

Basic fuchsin 1%* Carbol fuchsin 1%* Arcidine orange 1% Malachite green oxalate 1% Methyl violet 2B 1%* Methylene blue 1% Wright stain 1% Gentian violet (dye) 1%*

Most conventional cleaning agents

Organic Chemicals

Formaldehyde 37% Furfural 10%

Salt

Silver Nitrate 1% Potassium permanganate 10%* Ferric (III) chloride 10% Copper sulphate 10%

Sodium hypochlorite 13% Sodium chloride 10%

Solvents

Ethylalcohol Acetone Ethylene glycol Methylethylketone Dichloromethane Ethylacetate Acetic anhydride n-Butyl acetate n-Hexane Methylalcohol Methylisobutylketone Tetrahydrofurane

Trichloroethylene Toluene **Xylene**

Formica Compact

STRUCTURAL INTERIOR LAMI

Chemical and stain resistance

Formica® decorative laminates have been widely and satisfactorily used for many years in laboratories in medicine and industry. They easily meet the requirements of EN 438:2005, which specifies resistance to staining by over 40 substances which are likely to be encountered in everyday use. These include tea, coffee, milk, citric acid, acetone, alcohol, fruit juices, detergents, bleaches and colouring agents, but do not include chemicals more likely to be found in laboratories.

No effect after 16 hours contact time

Acetic acid Acetone Ammonia Alcohol

Amyl acetate Benzene Butyl acetate Carbon tetrachloride

Caustic soda (<10%) Citric acid Detergents Olive oil Paraffin Phenol Petrol Soap

Toluene Sugar solution **Xylene**

No effect if the material is removed completely after 10-15 minutes

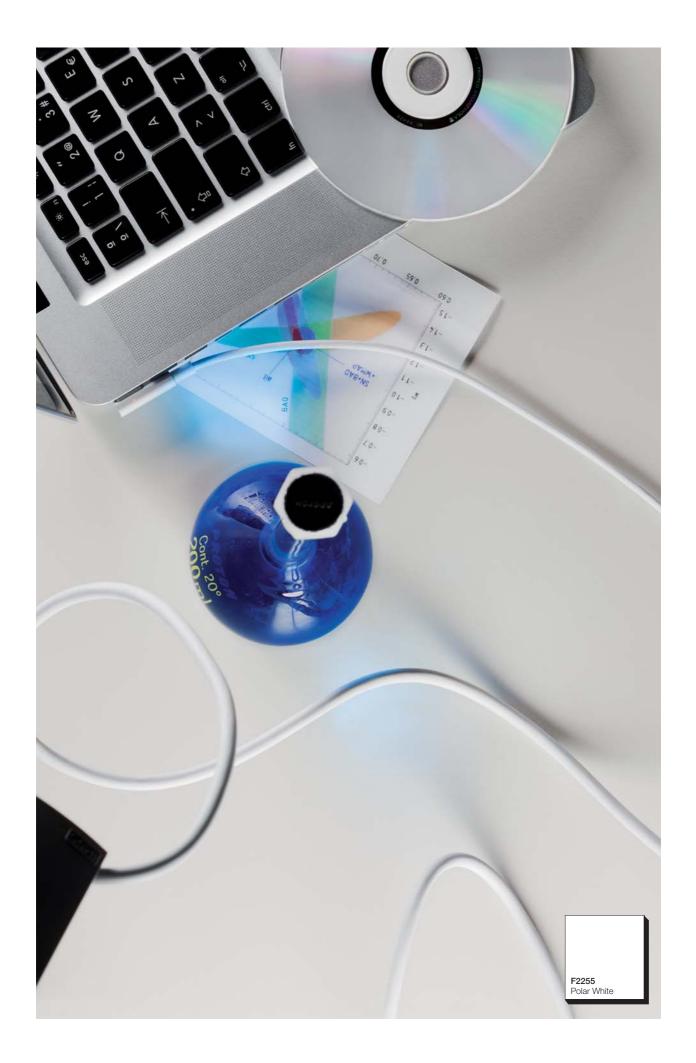
Caustic soda (>10%) Ferric chloride Formic acid Hair dye Hypochlorite bleach Hydrochloric acid (<10%) Hydrogen peroxide (<30%) Iodine

Nitric acid (<10%) Oxalic acid Phosphoric acid (<10%) Potassium permanganate

Silver nitrate Sulphuric acid (<10%)

Permanent staining or surface attack probable, necessitating immediate removal

Hydrochloric acid Nitric acid Phosphoric acid Sulphuric acid (>10%)



Property	Test Method	Property / Attribute	Unit (max or min)	Values
Resistance to surface wear	EN 438-2-10	Wear resistance	Revolutions (min) Initial point Wear value	150 350
Resistance to impact by large diameter ball	EN 438-2-21	Drop height (a)	mm (min) >4 ≤6 mm thickness mm (min) >6 mm thickness	1400 1800
Resistance to scratching	EN 438-2-25	Force	Rating (min) (see Annex A) Smooth finishes Textured finishes	2 3
Resistance to dry heat (180 °C)	EN 438-2-16	Appearance	Rating (min) Gloss finish Other finishes	3 4
Resistance to wet heat (100 °C)	EN 12721:1997	Appearance	Rating (min) Gloss finish Other finishes	3 4
Resistance to immersion in boiling water	EN 438-2-12	Mass increase Thickness increase Appearance	% (max) >4 ≤6 mm thickness >6 ≤20 mm thickness % (max) >4 ≤6 mm thickness >6 ≤20 mm thickness Rating (min) Gloss finish Other	5 2 6 2 3 4
Dimensional stability at elevated temperature	EN 438-2-17	Cumulative Dimensional Change	% (max) Thickness >4 ≤6 mm L (b) T (c) Thickness >6 ≤20 mm L T	0.40 0.80 0.30 0.60
Resistance to staining	EN 438-2-26	Appearance	Rating (min) Groups 1 & 2 Group 3	5 4
Light fastness (xenon arc)	EN 438-2-27	Contrast	Grey scale rating	4 to 5
Resistance to water vapour	EN 438-2-14	Appearance	Rating (min) Gloss finish Other	3 4
Resistance to crazing	EN 438-2-24	Appearance	Grade (min)	4
Flexural modulus	EN ISO 178:2003 (d)	Stress	Mpa (min)	9000
Flexural strength	EN ISO 178:2003 (d)	Stress	Mpa (min)	80
Tensile strength	EN ISO 527-2:1996 (e)	Stress	Mpa (min)	60
Density	EN ISO 1183-1:2004	Density	g/cm3 (min)	1.35
Thickeness	EN 438-2-5	Dimensional tolerance	mm >12 ≤16 mm thickness >16 ≤ 20 mm thickness	± 0.60 ± 0.70
Flatness (g)	EN 438-2-9	Dimensional tolerance	mm/m ≥10 mm thickness	± 3
Length and Width (h)	EN 438-2-6	Dimensional tolerance	mm	+10 /-0
Straightness of Edges	EN 438-2-7	Dimensional tolerance	mm/m	1.5
Squareness	EN 438-2-8	Dimensional tolerance	mm/m	1.5

⁽a) When tested at the specified drop height, the diameter of indentation shall not exceed 10mm.

⁽b) L = in the longitudinal (or machine) direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).

⁽c) T = in the cross-longitudinal (cross-machine) direction of the fibrous sheet material (at right angles to direction L).

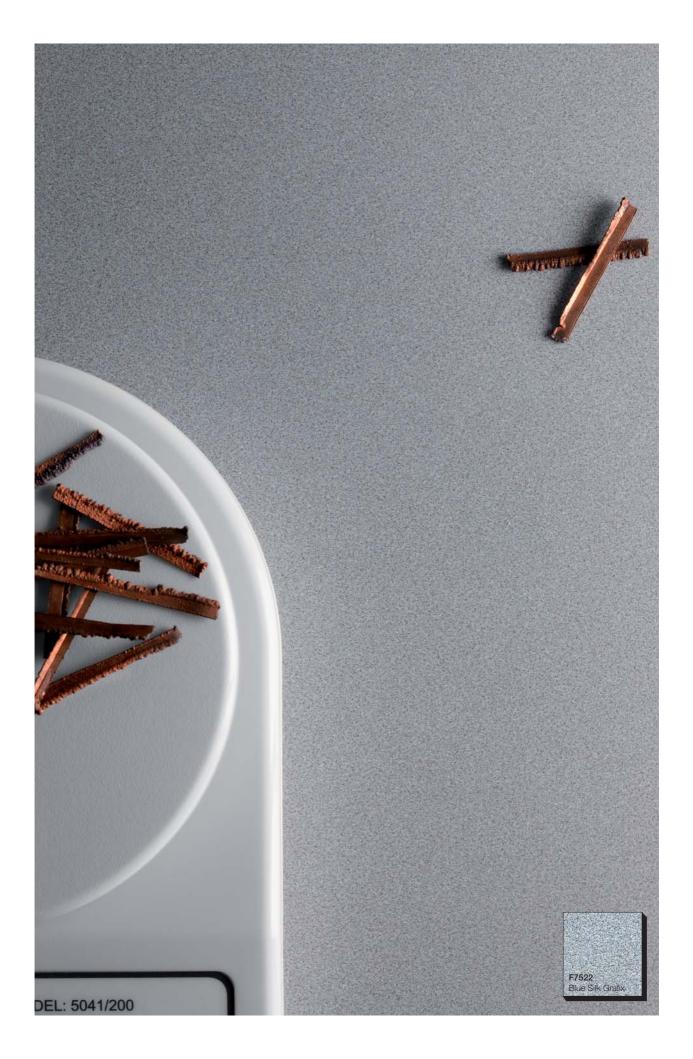
⁽d) Machine crosshead speed 2 mm/min.

⁽e) Specimen type 1A. Machine crosshead speed 5 mm/min.

⁽f) Tested in accordance with procedure A using specimen III.

⁽g) Provided that the laminates are stored in the manner and conditions recommended by the manufacturer they shall comply with the flatness requirements specificed in this table when measured in accordance with EN 438-2-9. The flatness values specified in this table apply to laminates with two decorative faces. Limits for laminates with one face sanded shall be agreed between supplier and customer.

⁽h) Tolerances for cut-to-size panels shall be agreed between supplier and purchaser.



Chemtop®2 and Formica® Compact can be cut, shaped and routed to produce contemporary and practical interiors and the distinctive black core can be shaped and polished to create a striking design feature. As it needs no bonding to substrates, 16mm Chemtop2 and Formica Compact laminate are simple and quick to fabricate and install.

Chemtop2 and Formica Compact laminate can also be made available, on a make to order basis, in most decors from the Colors, Patterns and Woods ranges in the Formica Collection, (minimum order quantities and lead times apply). Certain technical restrictions might apply to Chemtop2 decor availability.

Note: Because of the special Chemtop2 manufacturing process, exact matches between Chemtop2 products and Formica Compact laminate and/or standard laminates are not possible. We recommend the comparison of actual samples before specification, fabrication or installation. Butt joint matches

Care and maintenance

Chemtop2 and Formica Compact laminate surfaces may be cleaned with a damp cloth and mild detergent. For stubborn stains, use non-scratch liquids or creams in conjunction with a nylon bristle brush.

Stubborn stains may also be removed by use of organic solvent or hypochlorite bleach, followed by wiping with a soft,

Ink marks can be removed with methylated spirits or acetone on a clean cloth.

Organic solvents such as white spirit and cellulose thinners can also be used to remove paint splashes and graffiti. After using a cleaner, rinse the surface with clean water and dry with a soft cloth.

Do not use acid-based ceramic cleaners and limescale removers, as they may cause permanent staining. Wash any spillage or splashes of these cleaners from the surface immediately.

Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., will damage the finish of each and can permanently reduce the stain and chemical resistance of the **Chemtop2** surface.

Good laboratory practice dictates that all chemical spills should be wiped up promptly.

If in doubt about the suitability of a particular cleaner or detergent, check with the manufacturer of the cleaning product.

Do not use furniture polish, as this can cause build up of silicone wax on the surface that can cause discolouration and smear marks.

Do not cut directly onto the surface of **Chemtop2** or **Formica Compact** laminate.

Chemtop2 and Formica Compact laminate surfaces should be protected from damage caused by heat, such as heat created from Bunsen burners. The Bunsen burner should be placed on a trivet to protect the surface.

For more information on storage, handling and fabrication please visit www.formica.com







ISO 14001:2004

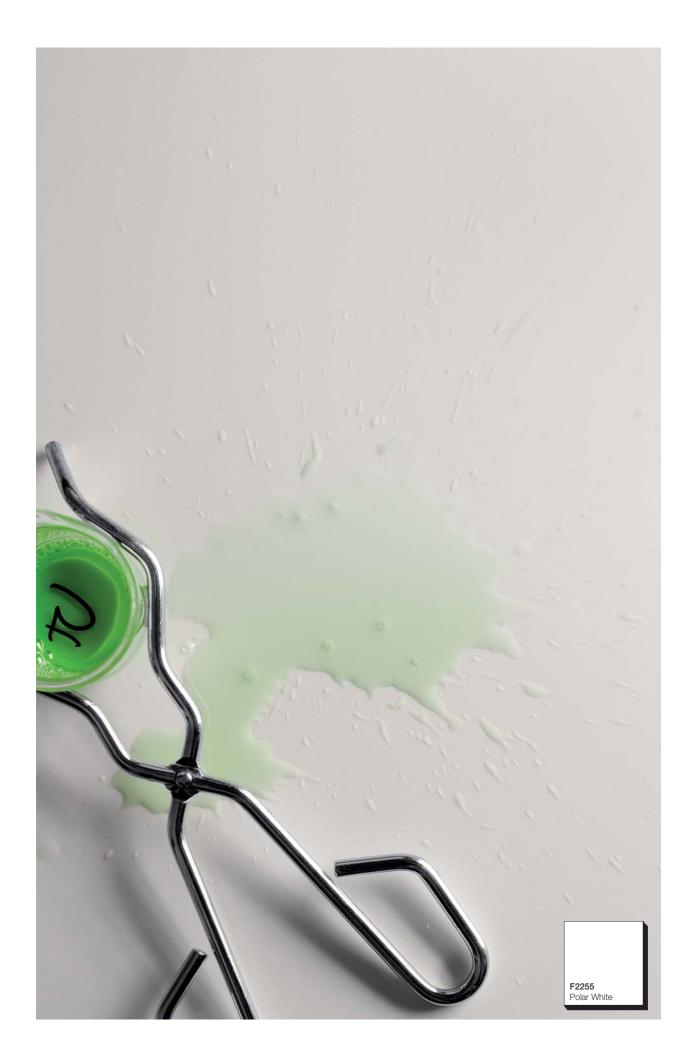




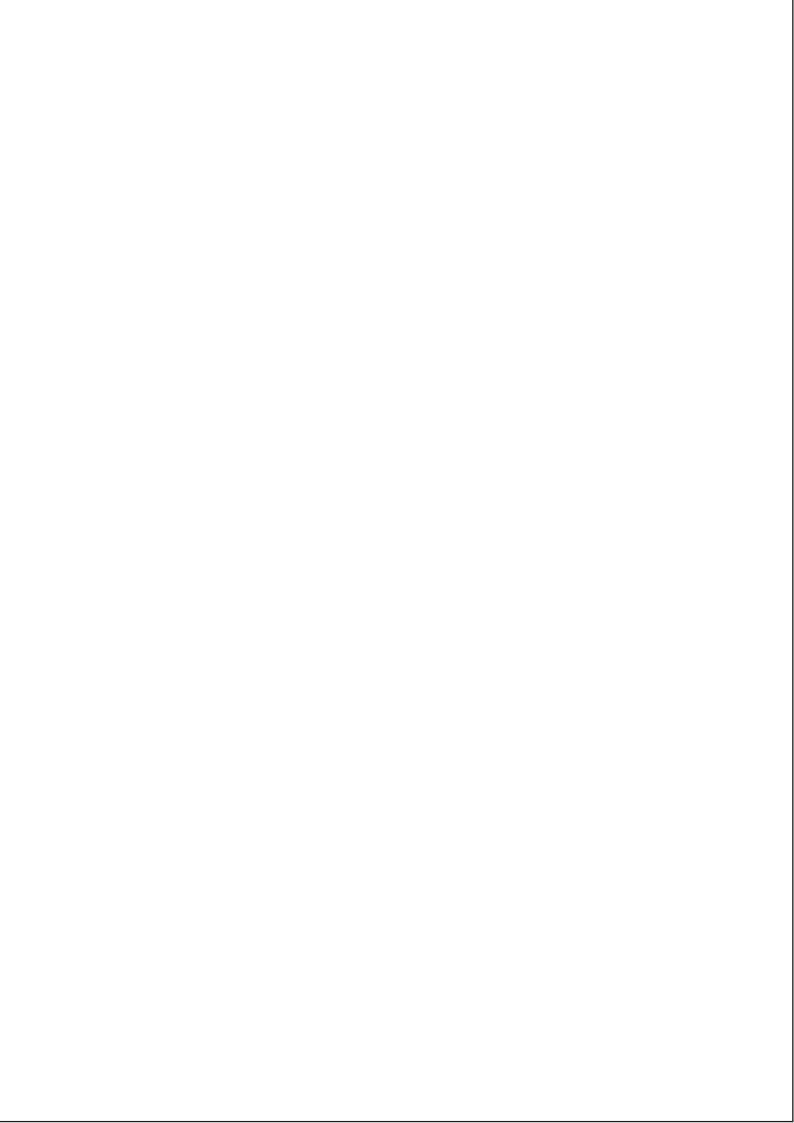


Formica Group are FSO® certified and comply with the requirements of FSC. Network of participating European Formica Group sites is shown on certificate number TTCOC-003588.









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