

1. Description and Range

Valchromat® A Forest of Colour

Valchromat is a panel made of wood fibres coloured in the production process. The fibres are impregnated with organic colouring agents and chemically bound to one another by a special resin which lends Valchromat unique physicochemical features.

Valchromat is an MDF.HLS, in compliance with the EN 622-5 standard.

Valchromat panels, thanks to the use of organic colouring agents and the natural variation of the wood colour, come in different shades. This variation may be seen on the same surface, between the two faces of the same panel, or between the different production batches or thicknesses.

Valchromat is a waterproof panel, supplied with no finish, and therefore a layer of varnish, wax or oil is recommended.

Colours / Thicknesses(mm)	8	12	16	19	30	
Light Grey SLG	●	●	●	●	●	3660x2440
Grey SCZ	●	●	●	●	●	
Black SBL	●	●	●	●	●	
Chocolate Brown SCB	●	●	●	●	●	3660x1220
Red SSC	●	●	●	●	●	3660x1830
Yellow SYW	●	●	●	●	●	
Orange SOR	●	●	●	●	●	2440x1830
Violet SVI	●	●	●	●	●	
Blue SRB	●	●	●	●	●	2440x1220
Green Mint SGM	●	●	●	●	●	

Dimensions(mm)

2. Applications

Interior design, furniture, linings, flooring, doors, bathrooms and kitchens, restaurants, exhibition stands, shopfitting, decorative panels, acoustic panels, among others.

Whenever the panels are used in moist zones, such as bathrooms or kitchens, they should be protected with a varnish and the tops must be properly sealed.

The Valchromat panels should not be applied in places where they will come into direct contact with water, such as kitchen worktops and bathroom showers.

3. Finishes

A finish should be applied to the Valchromat panel to protect its surface and maintain its natural appearance. The finish may be varnish, wax or oil.

Of the three kinds of finishes described, the varnishes are the most complex and at times the most difficult to choose given the broad range available on the market. Any wood varnish can be applied to Valchromat. Two-component acrylic varnishes are most suitable.

Surface preparation

Given that there will be a difference in shades of the panels from the same batch, before installing them, the panels should be laid out side by side and ordered so as to minimise these differences in adjacent panels.

In general, any finish, be it varnish, wax or oil, needs the surface to be prepared beforehand. This preparation involves sanding the surfaces before applying the finish.

The surfaces should be sanded gradually, increasing the sandpaper grit size 50% with each new step. At least 3 phases with 3 different sandpaper grit sizes are recommended.

The final surface ready to receive the finish must be sanded with a grit size of 320-360, to obtain a smooth surface with no scratches.

The Valchromat panels come from the factory sanded with 150-180 grit size sandpaper, so it is recommended that the surface preparation starts with sandpaper grit size 150-180, followed by 220-280, and finally sand with 320-360 grit size. The tops also have to be finished, so they should be treated too.

Before applying the finish, the panels must be cleaned with a dry cloth, air brush, or preferably with a vacuum cleaner to completely rid them of dust, which will harm the finish.

Wax or Oil Finish

The waxes or oils are usually applied with a single coat on the pre-prepared surfaces.

These kinds of finishes should not be applied on panels for installation in moist environments, such as kitchens and bathrooms.

Varnish Finish

When a varnish finish is applied, the first coat applied is a primer, also called a base or pore sealant. After the primer has dried, the panel should be sanded with fine sandpaper with grit size 320-360, to remove the granules that may result from peeling.

Next, a varnish finish is applied in one or two coats, in line with the manufacturer's instructions. Between each layer the panel should be sanded using fine sandpaper with grit size 320-360.

Different varnishes have different appearances, from matt to gloss.

Primer and the varnish from the same manufacturer should be used to avoid incompatibility between them.

4. Certifications

Valbopan S.A. complies with the requirements of the EN ISO 9001 Standard.

Valchromat is certified through CE 1328-CPR-0062, complying with the requirements of the EN 13986 standard.

Valbopan S.A. has Responsible Supply Chain Certification, in accordance with the PEFC and FSC certification. These certificates can be supplied by Valchromat upon request.

Upon request Valchromat can supply its CARB2 certification.

5. Properties

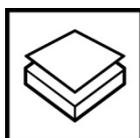
Nominal Thickness

Characteristics	Unit	8	12	16	19	30	Standard
Density (± 30)	Kg/m ³	850	820	800	790	740	EN 323
Swelling in thickness 24 hours	%	12	10	8	8	7	EN 317
Internal Bond	N/mm ²	0.80	0.80	0.75	0.75	0.75	EN 319
Bending Strength	N/mm ²	42	40	38	38	36	EN 310
Modulus of Elasticity in Bending	N/mm ²	3400	3200	3100	3100	3000	EN 310
Swelling after Cyclic Test	%	19	16	15	15	15	EN 321
Internal Bond after Cyclic Test	N/mm ²	0.30	0.25	0.20	0.20	0.15	EN 321
Level of Formaldehyde	mg/ 100g dry board	≤ 8 (Class E1)					EN 120
Fire Reaction		F	≥12 to ≤30 (Class D-s2, d0)				EN 13501
Thickness Tolerance	mm	±0.2		±0.3			
Dimension Tolerance	mm/m	±2; maximum ±5					

Cyclic Moisture Resistance Tests Standard (EN 321)

	Temperature (°C)	Duration (Hours)
In Water	20 ± 1	70 ± 1
In the Freezer	-12 to -25	24 ± 1
In the Hothouse	70 ± 2	70 ± 1

6. Advantages



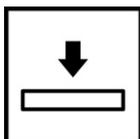
Coloured in all thickness

Colour remains, even after cut or machined.
 It does not require the use of paint.
 It does not require gluing an edge.



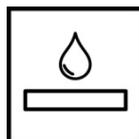
Non-Toxic

Ecological organic dyes.
 Formaldehyde emissions are within the limits set by European standards.



Weight Resistant

It has a high bending resistance.



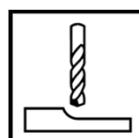
Moisture Resistant

It is resistant to moisture so it can be used in kitchens, bathrooms and floors. *



Tool Friendly

It is a low abrasion product considered tool-friendly.



Easy to Machine

It has a greater internal bond, which gives it a higher mechanical strength.
 30% stronger than standard MDF.

* Do not hesitate to ask us for information about the most suitable finishes