

CLEANING RECOMMENDATIONS

Decorative Pfleiderer products



HPL laminates, Melamine faced boards & XTreme Products

are characterized by excellent material properties. They are durable, hygienic and easy to clean.

The following recommendations serve as a guideline for proper cleaning to achieve optimal care and cleaning results while preserving the surface quality of the material over the long term. They are not intended to be exhaustive. Furthermore, Pfleiderer has no commercial affiliation with the manufacturers of the cleaning agents mentioned. The general cleaning recommendations provided by the respective manufacturers shall apply. Pfleiderer accepts no liability for damage resulting from improper use of the recommended cleaning agents or cleaning tools, or from impermissible chemical or mechanical воздействия on the surface.

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GENERAL CLEANING INFORMATION

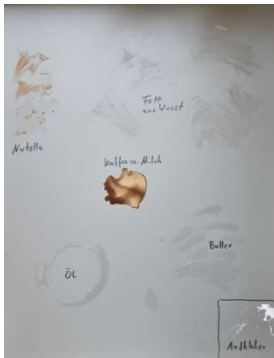
Daily routine cleaning is intended for the removal of dirt arising under normal conditions of use. Typically, this includes grease-based contamination generated during cooking or baking, as well as fingerprints, liquid residues, and stains.

Cleaning should be carried out regularly using warm water mixed with a suitable cleaning agent. Commercially available dishwashing liquids or grease-dissolving all-purpose cleaners are recommended. Heavy soiling should first be allowed to soak. The surface should then be wiped with clean hot water until all traces of the cleaning agent have been removed. Finally, the surface should be dried thoroughly with a dry, lint-free cloth, preferably following the direction of the décor or surface texture, or consistently in one direction, to prevent streaking.

Note

Cleaning agents are often given little or no dwell time to loosen and dissolve dirt effectively. Depending on the type and degree of soiling, a dwell time of 30 seconds to 2 minutes should generally be allowed before wiping the surface clean.

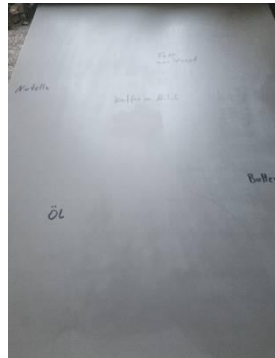
Cleaning Procedure



1. Soiled surface



2. Wipe the surface with a damp cloth



3. Wipe dry



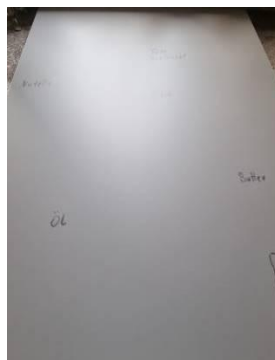
4. Apply the cleaning agent over the entire surface



5. After the recommended dwell time remove any cleaner residues with hot water and a microfiber cloth



6. Rub the surface dry evenly using a cotton cloth



7. Streak-free and smear-free surface

Cleaning information

- Decorative Pfleiderer products should be cleaned regularly. Any type of contamination should be removed as promptly as possible.
- Grease-based soiling may cause permanent changes to the surface (film build-up) if left for extended periods or if repeated contamination occurs without interim cleaning. Such contamination should be removed immediately and no later than 12 hours after it occurs.
- Standing water should be avoided both during normal use and when cleaning the surface. Any water residues should be wiped away immediately
- The use of care products, such as furniture oils or polishes, is not required.
- Dishwashing liquids marketed as skin-care or “balsam” products, containing replenishing additives such as aloe vera, may leave a film on the surface that is difficult to remove. Therefore, their use for cleaning is not recommended.
- Cleaning agents, cloths, or sponges containing abrasive components must be avoided under all circumstances (e.g., Scotch-Brite™ scouring pads or erasers).
- Foam sponges (magic eraser) are suitable exclusively for cleaning XTreme Products.
- Whenever possible, use lint-free cloths for cleaning.
- Steel Matt (SE/SH) should always be cleaned in the direction of the surface texture.

Prolonged exposure to the following cleaning agents may cause microcracking and/or embrittlement of the surface, which can subsequently result in irreparable staining, marks, or edge discoloration!

- Aggressive cleaning agents and descaling products for coffee machines must only remain on the surface for a short period of time. Even small quantities (e.g., drips or splashes) must be removed immediately.
- Before using limescale removers for the first time, a test must always be carried out on an inconspicuous area.
- Do not use cleaners containing strong acids or acidic salts. Examples include descalers containing formic acid or sulfamic acid, drain cleaners, hydrochloric acid, silver polishes of any kind, and oven cleaners.
- Aggressive cleaning agents containing ingredients such as sodium hypochlorite or hydrogen peroxide must be removed immediately after use by repeatedly wiping the surface with damp cloths.
- When cleaning with solvents, all applicable health and safety regulations must be observed. Ensure adequate ventilation by opening windows. Avoid open flames and direct skin contact.
- The use of steam cleaners is not recommended.
- On thermoplastic edge banding, gasoline, thinners, acetic acid, nail polish remover, and similar highly solvent-based or alcohol-containing substances may cause stress cracking or whitening (stress whitening) if not removed immediately.
- High quality Pfleiderer surfaces are neither corrosive nor susceptible to oxidation. They do not require any additional surface treatment, such as varnishes, oils, or other coatings

CLEANING RECOMMENDATIONS – Decorative Pfleiderer Products

If residues remain on Pfleiderer surfaces after routine daily cleaning, intensive cleaning of the affected areas is required.

The cleaning recommendations are based on tests in which typical contaminants are applied to Duropal HPL and melamine-faced boards with a variety of textured and non-textured surface finishes.



Cleaning Procedure

Various types of contaminants are applied to the surfaces. Cleaning should be carried out in accordance with the following procedure:

1. Apply the cleaning agent sparingly to the surface. The amount of liquid cleaner used should depend on the degree of soiling. Before first use, it is recommended to test the cleaner on an inconspicuous area.
2. Distribute the cleaning agent evenly across the surface, wherever possible.
3. Allow the cleaning agent to remain on the surface for 30 seconds to 2 minutes, depending on the level of contamination
4. Remove the cleaning agent using a dry, lint-free paper towel. For directional surface textures, cleaning should be carried out in the direction of the texture.
5. Particularly on food-contact surfaces, wipe the surface afterwards with a damp microfiber cloth.
6. To prevent streaking, dry the surface thoroughly using a paper towel or a cotton cloth.

Note

- Cleaning only isolated areas may result in visually noticeable transitions between cleaned and uncleaned sections. Therefore, it is recommended to clean the entire surface in accordance with the cleaning procedure described above.
- If contaminants have remained on the surface for an extended period, or if particularly stubborn residues have formed due to layer build-up, it may be necessary to repeat the cleaning process.
- Never remove pencil marks with an eraser. Erasers may cause irreparable damage to the surface.
- The instructions and safety information provided by the cleaning agent manufacturer must be strictly observed.
- Foam sponges (magic eraser) are suitable exclusively for cleaning XTreme Products.

Cleaning Performance Criteria

- The effectiveness of the cleaning agent in removing the respective type of contamination
- The dwell time for household cleaners ranges from a minimum of 30 seconds up to 2 minutes. Professional cleaners (Henkel TechnoMelt and Ostermann FSG Plastic Cleaner) were removed immediately after application
- Different dwell times represent different drying periods of the contamination on the surface prior to cleaning

Test Results Assessment

- full cleaning performance with minimal effort
- residual contamination remains despite considerable cleaning effort

Contamination / Exposure Time	Cleaning agents	smooth surfaces ¹	textured surfaced ²
pencil / not required	Dasty Fettlöser ³	not recommended	not recommended
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		not recommended
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		not recommended
	SC Johnson Mr Muscle ⁹		
felt-tip pen / 30 minutes	Dasty Fettlöser ³	not recommended	
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		not recommended
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
ballpoint pen / not required	Dasty Fettlöser ³	not recommended	
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		not recommended
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		not recommended
wax crayons / not required	Dasty Fettlöser ³		
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
shoe polish / 30 minutes	Dasty Fettlöser ³		
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		

Contamination / Exposure Time	Cleaning agents	smooth surfaces ¹	textured surfaced ²
grease (hand cream) / not required	Dasty Fettlöser ³	not recommended	
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
adhesive residue / 4 hours	Dasty Fettlöser ³	not required	not required
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
make-up / 7 days	Dasty Fettlöser ³		
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
coffee / 24 hours	Dasty Fettlöser ³		
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶		
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		
	SC Johnson Mr Muscle ⁹		
tea / 24 hours	Dasty Fettlöser ³		
	Dasty Gläser und Oberflächen ⁴		
	Henkel Sidol-Glasreiniger ⁵		
	Henkel TechnoMelt ⁶	not recommended	not recommended
	Mellerud Küchenentfetter ⁷		
	Ostermann FSG-Kunststoffreiniger ⁸		not recommended
	SC Johnson Mr Muscle ⁹		

*1 smooth surfaces: CM, HG, ML, MS, SM

*2 textured surfaced: AL, AZ, BA, BR, CA/CE, CO/CK, CR, DU, FG, FL, MO, MP, MR, NW, PA, PT, RR/RO, RT/RU, SD, TI, SE/SH, VE, VI, VO, VV

List of Cleaning Agents used

- *3 Dasty Fettlöser / www.dastysolution.com
 *4 Dasty Gläser und Oberflächen / www.dastysolution.com
 *5 Henkel Sidolin Glasreiniger / www.henkel-reiniger.de
 *6 Henkel TechnoMelt / www.henkel-adhesives.com/de/de.html
 *7 Mellerud Küchenreiniger / www.mellerud.de
 *8 Ostermann FSG Kunststoffreiniger / www.ostermann.eu
 *9 SC Johnson Mr Muscle / www.scjohnson.com



CLEANING RECOMMENDATIONS – XTreme Products



XTreme Products include Duropal XTreme (XMSM), Duropal SolidColor XTreme (XMSM), Duropal XTreme Touch (XMRT, XMVO), Duropal HPL XTreme plus (XPSM), and PrimeBoard XTreme (XG, XTSM). Owing to their durable lacquered surfaces, XTreme Products offer outstanding material properties and are particularly durable, hygienic, and easy to clean.

Cleaning Procedure

The objective of these cleaning recommendations for XTreme Products is to provide cleaning that is both effective and environmentally responsible. By combining targeted mechanical cleaning methods with the sparing use of chemical cleaning agents, a high level of cleaning performance can be achieved in the shortest possible time.

Testing has shown that, across all XTreme Products, 11 out of 13 tested contaminants could be successfully removed using a microfiber cloth and/or a foam sponges (magic eraser)!

The cleaning tests were carried out under practical, real-world conditions using a wide range of different test substances. Contaminants with short exposure times were cleaned after just one hour, while single and repeated contaminations were allowed to remain on the surface for up to three weeks before cleaning was performed.

For heavy, paste-like contaminants, such as butter, Nivea cream, or zinc ointment, an initial coarse pre-cleaning with a microfiber cloth is recommended. The actual cleaning process can then be carried out. Before first use, it is advisable to test the cleaning method on an inconspicuous area.

As a general rule, cleaning should always begin with a microfiber cloth or a foam sponge (magic eraser). If this mechanical cleaning method does not achieve the desired result, suitable cleaning agents may be used additionally and in small quantities. The cleaning agent should be applied sparingly to the soiled surface and distributed evenly.

The assessment of cleanability was based on a wide range of surface cleaners commonly used in households, kitchens, industrial environments, and commercial applications. Products from France, the United Kingdom, and Switzerland were also included in the evaluation. The results demonstrate that all tested cleaners consistently exhibited good cleaning performance.

After cleaning, the cleaning agent should first be removed with a dry, lint-free paper towel. For surfaces with a directional texture, wiping in the direction of the texture is recommended. In particular, food-contact surfaces should subsequently be wiped with a damp microfiber cloth.

To achieve an optimal appearance and prevent streaking, it is recommended to finish by drying the surface with a clean paper towel or cotton cloth. This helps preserve the characteristic premium appearance of XTreme surfaces over the long term.

Note

- Cleaning only isolated sections of a surface may result in noticeable visual transitions between cleaned and uncleaned areas. Therefore, it is recommended to clean the entire surface in accordance with the cleaning procedure described above.
- Where contaminants have been left on the surface for extended periods, layer build-up may occur, or residues may become particularly difficult to remove. In such cases, it may be necessary to repeat the cleaning procedure.
- The instructions and safety information provided by the cleaning agent manufacturers must be observed at all times!

Cleaning Performance Criteria

- Single and repeated contamination events
- Duration of contaminant exposure on the surface
- Testing of various cleaning agents
- Evaluation of the effectiveness of each cleaning agent on the respective type of contamination

Test Results Assessment

- max. 5 wiping strokes, minimal effort, residue-free cleaning
- max. 10 wiping strokes, increased effort, residue-free cleaning
- More than 10 wiping strokes, increased effort, visible contamination residues remain

		Single Contamination ¹ Exposure Time: 1 Hour				Single and Repeated Contamination ^{1/2} Exposure Time: 3 Weeks			
Contaminant		XPSM	XMSM ³	XTSM	XG	XPSM	XMSM ³	XTSM	XG
cooking oil Mazola Rapsöl	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
butter Gutes Land Markenbutter	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
turmeric Ostmann	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
water / limescale residues	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
coffee / tea	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
NIVEA Cream	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
sunscreen NIVEA SUN 50+	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
zinc ointment altapharma	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
pencil	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
permanent marker Edding, black	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
	Kiehl Tablefit + Schmutzradierer, dry								
ballpoint pen	amazon Mikrofasertuch, dry								
	amazon Mikrofasertuch, damp								
	domol Schmutzradierer, damp								
	Kiehl Tablefit + Schmutzradierer, dry								

Contaminant		Single Contamination ¹ Exposure Time: 1 Hour				Single and Repeated Contamination ^{1/2} Exposure Time: 3 Weeks			
		XPSM	XMSM ³	XTSM	XG	XPSM	XMSM ³	XTSM	XG
wax crayon Staedtler	amazon Mikrofaser Tuch, dry								
	amazon Mikrofaser Tuch, damp								
	domol Schmutzradierer, damp								
shoe polish Erdal, black	amazon Mikrofaser Tuch, dry								
	amazon Mikrofaser Tuch, damp								
	domol Schmutzradierer, damp								

¹ Single contamination are applied once and subsequently cleaned after either one hour or three weeks of exposure.

² Multiple contamination are simulated by repeatedly applying the same test substance to the surface. The surface is cleaned after a three-week exposure period.

³ The cleaning recommendations provided for Duropal XTreme (XMSM) are equally applicable to Duropal XTreme Touch (XMRT/XMVO) and Duropal SolidColor XTreme (XMSM)

Test Variants

- U12000 XMSM / XPSM / XTSM / XG – cooking oil, butter, water / limescale residues, Nivea Cream, sunscreen, zinc ointment
- U11026 XMSM / XPSM / XTSM / XG – turmeric, coffee / tea, pencil, permanent marker, ballpoint pen, wax crayon, shoe polish

List of Cleaning Agents used

Source Germany:

- Amazon Basics Mikrofaser Reinigungstuch, vor erster Verwendung separat waschen / www.amazon.de
- Domol Schmutz-Radierer, für vielseitige Oberflächen, reinigt ohne Reinigungsmittel / www.rossmann.de
- Bref Power gegen Fett & Eingebrauntes / www.henkel.de
- Bref Power Universal Entkalker / www.henkel.de
- Cillit Bang Expert – Kraftreiniger Universal Fettlöser / www.cillitbang.de
- GenoTop - Kunststoff-Reiniger / www.zeg-holz.de
- Kiehl Tablefit – Kunststoff- und Schreibtischreiniger / www.kiehl-group.com
- Mellerud Küchen Entfetter / www.mellerud.de

Source France:

- Mr. Propre Cuisine / www.info-pg-com

Source United Kingdom:

- Cif Professional – Degreaser / www.proformula.com

Source Switzerland:

- Wetrok Brillant – Glas-/Oberflächenreiniger / www.wetrok.com



List of Test Substances Used

- Mazola Rapsöl / www.mazola.de
- Gutes Land Deutsche Markenbutter / www.netto.de
- Ostmann Kurkuma – gemahlen / www.ostmann.de
- Nivea Creme / www.nivea.de
- Nivea Sun – Schutz & Pflege / www.nivea.de
- Altapharma Medizinische Zinksalbe / www.rossmann.de
- Staedtler Noris junior – Wachsmalkreiden / www.staedler.com
- Erdal Classic – Feine Schuhcreme / www.erdal.de



SPECIAL CLEANING

Contamination by Microorganisms (Bacteria, Fungi, and Viruses)

In residential applications, decorative surfaces can be reliably cleaned of many common microorganisms using ethanol (denatured alcohol) or suitable disinfectants. The use of professional-grade disinfectants in combination with decorative Pfleiderer products requires prior approval by the Pfleiderer testing laboratory. For further information, please refer to the product information document “Resistance to Disinfectants, Stain Resistance and Chemical Resistance of Duropal HPL”.

Contamination by Household Chemicals

Decorative Pfleiderer products are homogeneous, non-porous materials and are resistant to most household chemicals. Although liquids cannot penetrate the material, contamination and stains should be removed immediately. Prolonged contact with corrosive substances, such as aggressive household cleaners, toilet cleaners, or oven cleaners, should be avoided.

Contamination by Limescale

To remove limescale deposits, the surface may be cleaned with a warm 10% vinegar solution or 10% citric acid solution. After an exposure time of 10 minutes, the surface must be thoroughly rinsed with warm water. When using commercially available household descaling agents, the surface should be rinsed with water immediately after application. Bref POWER Universal Descaler and MELLERUD Kitchen Degreaser have proven to be effective products for limescale removal.

Contamination by Paraffin or Wax Residues

To prevent scratching the surface, paraffin or wax residues should first be carefully removed mechanically using a plastic or wooden scraper. Any remaining residues can then be covered with absorbent paper (e.g., blotting paper), after which a hot iron should be placed on top briefly, using setting 1 (silk).

Contamination by Water-Based Paints, Varnishes, or Adhesives

Fresh contamination can generally be removed using warm water. For dried residues, solvents such as ethanol, acetone, or cleaning benzene (petroleum ether) may be used.

Contamination by Two-Component Adhesives and Coatings

Contamination caused by two-component adhesives and coatings must be removed from the surface immediately. Once cured, it is no longer possible to remove such contamination completely without leaving residues. The surface should therefore be cleaned immediately using a suitable organic solvent, while strictly following the manufacturer's instructions for the respective adhesive or coating system. Examples of two-component systems include those based on epoxy resin or polyurethane (PU).

Contamination by Silicone- or Polyurethane-Based Sealants

To prevent scratching the surface, sealant residues should first be carefully removed mechanically. The use of a plastic or wooden scraper is recommended for this purpose. Any remaining residues can be removed using suitable cleaning agents (e.g., silicone remover). If necessary, a longer dwell time may be required. However, prolonged contact with silicone removers should be avoided, as they may cause changes to the surface.

Contamination by Solvents

After the surface has come into contact with solvents, it should be washed with warm water and then dried thoroughly using a clean, soft, absorbent cloth or a commercially available paper towel.

Contamination by Graffiti

Graffiti contamination can generally be removed using cellulose thinner (nitro thinner). It should be noted that nitro thinner requires only a very short contact time of a few seconds. The surface should then be cleaned with water and dried using a clean, soft, absorbent cloth. When this cleaning procedure is followed, the surface will not be adversely affected by the nitro thinner. Graffiti can therefore be removed repeatedly from the same area without damaging the surface. When cleaning with solvents, all applicable health and safety regulations must be observed. Ensure adequate ventilation by opening windows. Avoid open flames and direct skin contact at all times.

SURFACE REPAIR MATERIALS – Specialist Supplier Offering

If decorative Pfleiderer products are damaged as a result of improper cleaning or installation, it may be possible to repair such damage through specialized professional service providers. Information on this subject is available exclusively from, and by way of example through, the suppliers listed below.

Sources for surface repair materials / wax and lacquer repair pens**Heinrich König & Co. KG**

An der Rosenhelle 5

D-61138 Niederdorfelden

Tel.: +49 6101 5360-0, Fax: +49 6101 5360-11 oder -99

E-Mail: info@heinrich-koenig.de, Internet: www.heinrich-koenig.de

Bao – Chemie GmbH & Co.**Chemische Fabrik KG**

Gohrweide 17

D-46238 Bottrop

Tel.: +49 2041 7208-0, Fax: +49 2041 7208-20

E-Mail: info@bao-chemie.de, Internet: www.bao-chemie.de**FSG Schäfer**

Boschstraße 14

D-48703 Stadtlohn

Tel.: +49 2563/ 93950

E-Mail: verkauf@fsg-schaefer.de / Internet: www.fsg-schaefer.de**Surface Repair Service****ARTUS Oberflächen Instandsetzung GmbH**

Hummler Straße 5

D-85416 Langenbach

Tel.: +49 (0) 8761 / 72065-0

E-Mail: artus@artus.eu / Internet: www.artus.eu

PM HPL / Elements / Lacquered boards / MFC

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