

Freestyle® 30mm Surfaces

Freestyle® 30mm Surfaces sheet material is manufactured from a polyester/acrylic hybrid resin, pigments for colour and alumina trihydrate as the filler. Sheets are made using a batch sheet cast forming line.

Freestyle 30mm Surfaces can be fabricated using standard wood working equipment.



APPLICATIONS

Freestyle 30mm Surfaces are specifically designed for many applications, such as kitchen and bathroom benchtops, counters, reception desks, commercial bars and many other horizontal applications.

30mm sheet thickness offers the added benefit of a greater finished bench thickness without the need for edge build downs.

30mm comes in 2 colour ranges:

- a. Solid colours - Arctic White, Tapenade, Coconut Milk, Zuccherio, Smooth Concrete,
- b. Speckle colours - Kosciusko, Bianco Quartz, Nero Quartz

Freestyle 30mm Surfaces construction is non-porous with consistent colour throughout the sheet. It cannot delaminate, is UV stable and resists many stains. It has excellent hygienic performance.

SUPPLY AND WARRANTY

Freestyle 30mm Surfaces is supplied only through authorised fabricators.

The product is covered by a 15 year limited warranty by The Laminex Group when fabricated and installed according to the Installation Manual.

SURFACE PROPERTIES

Freestyle 30mm Surfaces is made from a hybrid polyester/acrylic resin system.

Freestyle 30mm Surfaces has high resistance to many chemicals and is therefore an ideal laboratory benchtop material. However, in all cases, purpose testing of chemicals and stains should be undertaken prior to any final decision, due to the wide and varied chemical types and concentration.

Note: Test Results may vary due to colour and exposure time. It is highly recommended that all stains are removed as quickly as possible to reduce the staining of the surface.

LIMITATIONS

Freestyle Surfaces withstands normal wear and tear. Here are some guidelines to assist in Freestyle Surfaces application and use:

Avoid leaving hot appliances or utensils in direct contact with Freestyle Surfaces, use a trivet for hot pans or utensils to protect the surface.

Freestyle Surfaces is intended for interior use only.

Certain chemicals may damage Freestyle Surfaces. Refer to the Freestyle Surfaces chemical and stain resistance section for specific recommendations.

Refrain from sliding hard or heavy objects across the counter top surface as this may cause scratching. Scratching on darker surfaces will be more visible than on lighter colours and will require more ongoing maintenance. Refer to maintenance section.

It is not possible to create a seamless join when fabricating Mica colours due to the randomness of the design.

Do not allow dry ice to come into contact with Freestyle Surfaces.

Do not cut directly on Freestyle Surfaces.

PROPERTY SPECIFICATIONS

Property	Test Method	Units	Typical Results
Specific Gravity	ASTM D792	g/cm ³	1.7
Flexural Strength	ASTM D790	MPa	42
Flexural Modulus	ASTM D790	GPa	9.5
Water Absorption	ASTM D570	% wt	<0.13%
Rockwell M Hardness	ASTM D785	Rockwell units	92
Thermal Expansion	ASTM D696	mm/mm°C	3.24x10 ⁻⁵
UV Stability	NEMA LD3		slight effect
Wear and Cleanability	ANSI Z124.6	Visual rating	3-4
Gloss (60° Gardner)	ANSI Z124	Gloss units	5 - 20
Impact Resistance	NEMA LD3	Drop ht. = 2.4m Ball wt. = 224g	no fracture
Boiling Water Surface Resistance	NEMA LD3	Visual rating	very slight effect
High Temperature Resistance	NEMA LD3	Visual rating	no effect
Colour consistency	L.a.b	Units	ΔE < 1.0
Stain Resistance	ANSI Z124.6	Visual rating	passes
Stain Resistance	ANSI Z124.3	Visual rating	passes
Fungi & Bacteria	ANSI Z124		no effect

FREESTYLE CHEMICAL COMPOSITION

Material	Remark
MMA Methyl Methacrylate	Resin
PET Polyester	Resin
AL (OH) ₃ Alumina Trihydrate	Filler
UV Absorbers, Cross Linking Agents, Stabilisers, Curing Agents, Etc	Additives

FREESTYLE ADHESIVE CHEMICAL COMPOSITION

Base Component	Remark
	MMA Methyl Methacrylate
	LMA (Lauryl Methacrylate)
	Fillers & Additives
	SBS Block Rubber
Hardner	DBP (Di Butyl Phthalate)
	Benzoyl peroxide

FIRE TESTS

(Typically achieved when tested to AS/NZS 1530.3)

Indices	Result	Range
Ignitability	8	0-20
Spread of Flame	0	0-10
Heat Evolved	1	0-10
Smoke Developed	5	0-10

Cone Calorimeter AS/NZS 3837
(Irradiance of 50kW/m²)

Classification	Result	Unit/Range
Group Number	3	1-3
Average Specific Extinction Area	122.7	m ² / kg
Average Heat Release Rate	59.0	kW/m ²

Note:

Test Results may vary due to colour and particular size, however result changes will only be minor.

PRODUCT RANGE

- Standard sheet size:
Length = 3073 -0/+10mm
Width = 762 -0/5mm
- Standard thickness: 30mm +/-0.5mm

WHEN SPECIFYING SHEETS

Ask for: Freestyle 30mm Surfaces from Laminex in colour.

FABRICATION

The fabrication and installation of all components using Freestyle Surfaces should be carried out by an authorised Freestyle Surfaces Fabricator.

MAINTENANCE

On a day-to-day basis, Freestyle Surfaces can be kept clean using a sponge and soapy water. For any marks, stubborn stains etc., or even for a thorough cleaning, use an abrasive cleanser (like Ajax) and Grey 448 Scotch-Brite pad. Using these regularly helps to maintain a beautiful, satin lustre on your surfaces.

More severe stains, burns or damage can be removed using a very fine sandpaper (220-320 grit). To repair large chips, deep scratches, severe burns etc., an Authorised Freestyle Solid Surfacing Fabricator must be contacted.

Should further information on Freestyle Surfaces be required, contact The Laminex Group on 132 136 from anywhere in Australia, for fabricator, display and general advice.

FOOD SERVICE COUNTERTOPS Bain Marie

Food service countertops will require different design, fabrication and installation techniques due to the Freestyle Surfaces benchtop's possible exposure to greater temperature stresses than the normal residential installation.

It is a requirement of the manufacturer of the stainless steel tank equipment to manufacture all hot tank sections with installed double walls.

FREESTYLE CHEMICAL AND STAIN RESISTANCE

Freestyle is a hybrid polyester/acrylic solid surface product with a high level of Alumina Trihydrate content as a filler, which provides superior heat stability and resistance to stains and chemicals. The exposure time to the chemicals will have a direct effect on ease of removal.

Exposure to harsh chemicals should be avoided at all times. In case of surface contamination, quickly wash affected area with a domestic gritty cleaner and water. Sand if necessary. Surface damage may vary with the chemical strength and exposure time.

PERFORMANCE REPORT FOR CHEMICALS AND STAINS

Classification	%	Gritty Cleaner or Water	Scotch Brite™ or Sand Paper
Acetic Acid	5%	✓	
Acetic Acid	10%	✓	
Acetic Acid	90%	✓	
Acetic Acid	98%	✓	
Acetone		✓	
Aqua Regia			✓
Ammonia	10%	✓	
Ammonium Hydroxide	5%	✓	
Ammonium Hydroxide	28%	✓	
Benzene		✓	
Calcium Thiocyanate	78%	✓	
Chloric Hydroxide	20%		✓
Chloroform	100%		✓
Citric Acid	10%	✓	
Dimethyl Formamide		✓	
Ethanol	95%	✓	
Ethyl Ether		✓	
Formic Acid	88%		✓
Formaldehyde		✓	
Furfural			✓
Gasoline		✓	
Hydrochloric Acid	10%	✓	
Hydrochloric Acid	20%	✓	
Hydrochloric Acid	37%	✓	
Isopropyl Alcohol		✓	
Kerosene	20%	✓	
Methyl Alcohol	5%	✓	
Methyl Ethyl Ketone		✓	
Mineral Oil		✓	
Nitric Acid	10%		✓
Nitric Acid	30%		✓
Nitric Acid	40%		✓
Nitric Acid	70%		✓
Phenol	40%		✓
Phenol	85%		✓

Classification	%	Gritty Cleaner or Water	Scotch Brite™ or Sand Paper
Phosphoric Acid	25%		✓
Phosphoric Acid	85%		✓
Silver Nitrate	10%	✓	
Sodium Hydroxide	10%	✓	
Sodium Hydroxide	25%		✓
Sodium Hydroxide	40%		✓
Sodium Hypochlorite	5%	✓	
Sodium Sulphate		✓	
Sulphuric Acid	25%		✓
Sulphuric Acid	30%		✓
Sulphuric Acid	77%		✓
Sulphuric Acid	96%		✓
Toluene		✓	
Xylene		✓	
Zinc Chloride		✓	

TEST METHOD

Test method is based on 16 Hours exposure per chemical.

For exposures to chemicals other than above, it is recommended to test on a sample piece of Freestyle to confirm the suitability for the application.

Common domestic residues such as examples listed below, may be removed with water or domestic cleaners.

Alcohol	Coffee
Curry Powder	Juices
Mustard	Salt
Sugar	Vinegar
Ballpoint Pen Ink	Cooking Oil
Eye Brow Pencil	Lipstick
Nail Polish	Shoe Polish
Tea	Whisky
Cigarette	Crayon
Hair Dyes	Lotions
Pencil Lead	Soy Sauce
Tomato Sauce	Wine