

Decorative Effects

Pre-finished steel and aluminium products for domestic appliance and customised applications

A range of highly decorative and customised finishes consisting of one or two layers of paint or film applied to a metal surface to achieve a variety of properties, effects, textures and colours.

Some coatings can be supplied with built in anti-bacterial properties that help prevent and control the spread of harmful germs.

Possible Applications

- Ovens and cooker fascias
- General trim for domestic appliances
- Interior furnishings and trim
- Door furniture e.g. wardrobes
- Small appliances
- Trash/waste bins
- Packaging
- Automotive trim

Composition

Substrate:

Chosen according to customer requirements for appearance, formability, weight and resistance to corrosion.

- Brushed stainless steel substrates in all available grades.
- Aluminium and its alloys.
- Cold rolled and galvanised steels.

Coating effects

Anti-fingerprint High gloss, clear and coloured lacquers specifically developed for application over stainless steel to enhance the metal finish, provide a hard glaze resistant to fingerprints, staining and abrasion, but remaining flexible enough for most forming operations.



Pearlescent

Has the appearance where the principle colour effect changes depending on viewing angle. The effect is available in a variety of shades including red, blue, purple and green. The two layer coating provides good formability and resistance to abrasion.

Hammer Effect

Has the appearance of authentic, worked metal delivered through a highly structured surface and metallic pigmentation. Hammer finishes have good formability combined with a high resistance to damage. Silver and copper hammer effects are most popular but with other colours available.

Mica Effect

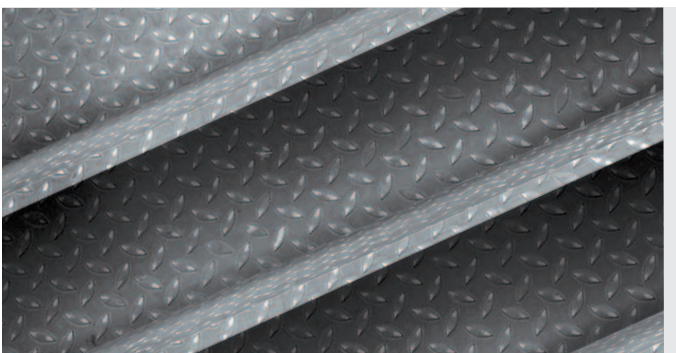
A highly structured, textured and aesthetic finish that has very high abrasion resistance but will still bend and form to final shape without damage. A range of metallic colours are available.

Soft Touch Effects

Are tactile and warm, non-metallic feel suitable for hi-touch applications requiring durability and ability to shape to final form. Available in a wide range of colours.

Print Effects

A wide range of colour combinations and patterns are available to provide a extensive range of bespoke finishes. Products range from woodgrain and marble effects to company logos and product names. Prints are flexible enough to form to finished shape and will retain their resistance to damage and abrasion.



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Dimensional capability and further processing

Firsteel produce metal coils in widths ranging from 200mm to 600mm, up to 3 tonnes maximum weight and in gauges from 0.20mm up to 1.4mm.

Material can be supplied as coated or slit to widths down to 10mm wide and cut into blanks.

For applications where damage may occur during forming or drawing, handling or transit, products can be supplied with a protective film.

Anti-bacterial Effect

Anti-bacterial properties delivered through Copper based agents are dispersed throughout the coating to prevent and control the effect of most, harmful bacterial including, e-coli, MRSA and Salmonella. The coating can be cleaned without losing anti-bacterial properties, which remain effective for the life of the finished product.

Not available in Soft Touch and Print Effects.

Typical properties

Decorative Effects		Data	Test standard
Gloss	%	10%-100% available	EN 13523 - 2
Pencil hardness		3H Minimum	EN 13523 - 4
Flexibility:			
Reverse impact	J	18	EN 13523 - 5
Minimum bend	T	1T diameter NTO	EN 13523 - 7
Adhesion:			
Cross hatch	%	100%	EN 13523 - 6
Corrosion resistance:			
Humidity	hours	1000	EN 13523 - 25
Maximum continuous operating temperature	°C	60°	
Minimum forming temperature	°C	16°	
Antibacterial effect		Minimum 5 years life Removes 100,000 germs per hour per sq. cm.	JIS Z 2801, ISO 22196

Note

All figures are based on target values and do not constitute a specification.

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