

Firsteel Coated Strip

Decorative Products

Highly decorative and customised pre-finished metals

The Sector

Firsteel products are suitable for use in highly decorative and customised applications. These include presentation boxes, packaging, trophies, high quality containers, light switch plates, door furniture, decorative handles and automotive trim.

Effects

The products are available in a range of metal substrates coated on both sides with a paint or lacquer. The coatings are applied up to four layers, depending on the desired effect.

Hammer Effect

This effect has the appearance of authentic, worked metal delivered through a highly structured surface and metallic pigmentation. The product has good formability and damage resistance and is available in either a silver or a copper effect, with others available on request. The effect can be applied to both sides of the metal substrate or with a protective lacquer to the reverse.

Antique Effect

This has the appearance of high value metal such as copper, brass and stainless steel. The product consists of a brushed or non-brushed metal substrate coated with a tinted lacquer to achieve the desired effect. It has good formability and we recommend it is supplied with a protective film.

Print Effect

The product consists of a solid colour or metallic colour base coat with up to two patterned layers and a protective clear lacquer topcoat. A wide range of colour combinations and patterns are available in a wide range of bespoke finishes. Standard designs include marble, mottled, tortoise shell and wood grain effects as well as a dotted pattern. Other patterns and effects can be achieved and company names or logos can be incorporated into the design. This product is flexible and resistant to damage with additional abrasion resistance available on request.

Pearlescent Effect

This has an appearance where the colour effect changes depending on the viewing angle. It offers good damage resistance and is available in lilac, blue, red and purple on a white background, and red, yellow and blue on a black background.

Soft Touch Effect

These products are tactile and have a warm and non-metallic feel. The coating is particularly suited to high touch applications whilst being durable and flexible. A wide range of colours are available.

Typical Properties

Firststeel Decorative Products

| | Flexibility ECCA T07 | Impact ECCA T05 | Thickness ECCA T01 (microns) | Hardness ECCA T04 |
|---------------------|-------------------------|--------------------|------------------------------------|----------------------|
| Hammer effects | 0T-0.5T | 60 in/lb | 15-28 | > 2H |
| Antique effects | 0T-0.5T | 60 in/lb | 15-22 | H-2H |
| Print effects | 0T-0.5T | 60 in/lb | 12-24 | <2H |
| Brushed effects | 0T-0.5T | 60 in/lb | 15-22 | H-2H |
| Metallic effects | 0T-0.5T | 60 in/lb | 15-22 | >2H |
| Pearlescent effects | 0T-1.0T | 60 in/lb | 15-25 | F-H |
| Soft touch effects | 0T-1.0T | 60 in/lb | 23-26 | >F |

Design Requirements

These products are intended for interior applications, although more durable versions are available. They are suitable for bending, folding, shallow and deep drawing. For demanding operations, the products can be supplied with a strippable protective film. All products can be supplied with the desired effect on both sides or a single side with the reverse coated with a thin protective lacquer. The exception to this are print effects, which can be provided on one side only.

Dimensional Capability and Further Processing

Products come in widths ranging from 6.5 mm up to a maximum of 640 mm, and in gauges from 0.15 mm to 1.6 mm for ferrous substrates and 2.0 mm for aluminium. The products can be supplied as wide coil, slit coil down to 6.5 mm wide and blanks.

Substrate Selection

The selection of substrate will depend on factors such as the flexibility, strength and corrosion resistance. Products are available with cold rolled (EN 10139) and cold reduced (EN 10130) steel substrates. Although suitable for many interior applications, cold reduced or rolled substrates offer little corrosion protection and are not recommended for applications where humidity and other sources of moisture are present. Hot dipped galvanised steel (EN 10326, EN10327) offers more protection against corrosion and is suitable for most applications. We also offer products based on aluminium alloys (EN 573/485/515), which offer good strength to weight characteristics and very good corrosion performance. Finally, products are available on stainless steel substrates (EN 10088), which have excellent corrosion performance and aesthetic appeal. Other substrates are available on request.

Contact Details

Contact Firststeel for more information and technical advice or to request samples.

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