

High performance from within

Pre-finished steels for office interiors

The Sector

Corus offers a range of pre-finished steels that are specially formulated for the manufacture of various interior goods. The range includes markerboards, ceiling tiles, wall panels, filing cabinets, paper guillotines, partitioning, shelving, doors and even bins.

Durability and visual finish is particularly important in the interiors sector and for this reason, our range can be manufactured specifically for any purpose and in almost any colour or pattern.

The Products

Selection of the topcoat depends on the surface finish that is required for the application. Stelvetite®, with good scratch and mar resistance, excellent durability and colour consistency is available in a wealth of colours, patterns and textures for wall panels, partitioning, ceiling tiles and shelving.

A choice of Flexible or Textured Colorcoat® Polyesters ensures excellent formability and uniform surface. Krinkle coat, suitable for shelving and office furniture provides a durable textured surface, resistant to staining and abrasion.

The lower cost One Coat Polyester has good formability and is particularly suited to filing cabinet drawers.

Colorstelve® and Snowlam used for markerboards are suitable for most proprietary marker pens. The ink can be removed with a dry cloth or special wiper leaving no ghosting. It is recommended that ACCO or NOBO marker pens are used.

Ceiling Polyester has a low gloss, metal marking resistance and good colour consistency, and is recommended for ceiling tiles, planks and suspensions strips.

All of the above come in a wide range of colours, textures and finishes.



Selection and Use

Colorcoat, *Stelvetite* and *Colorstelve* are ready to use. They give manufacturers superior design and production flexibility and are durable and easily maintained.

Smooth and Structured Polyesters have good mar and stain resistance.

The flexibility of the paint allows the material to be drawn or folded to tight bends.

The highest specification substrate is used according to corrosion resistant requirements.

Panels and wrap-arounds are commonly mass-produced from *Colorcoat* appliance polyesters as they have good scuff resistance. For more difficult production conditions, they can be supplied with a protective strippable film.

The range has been designed with specific properties for particular applications in the industry. Therefore, it is essential that prospective users should choose the right product. Corus can help with this choice.

The methods of designing and manufacturing products in *Colorcoat* and *Colorstelve* are well established with a proven track record. Careful attention to these methods will enable users to get the best productivity and efficiency from them.

Products			
Product	Colour	Finish	End use application
<i>Colorcoat</i> High Gloss Polyester	Various	Smooth with high gloss	Doors
<i>Colorcoat</i> Structured Polyester (ELK)	Various	High gloss with subtle texture	Doors, Bins
<i>Colorcoat</i> Textured (Krinkle)	Various	Heavy texture	Paper Guillotines, Wall Panels, Office Furniture, Shelving
One Coat Polyester	Black	Low gloss black	Filing Cabinet Drawers
<i>Colorstelve</i>	White or silver	High gloss	Markerboards
Ceiling Polyester	Various	Gloss as agreed	Ceiling Tiles, Planks and Suspension Strips
<i>Stelvetite</i>	Various	Low gloss	Wall Panelling, Partitioning, Shelving, Ceiling Tiles

Substrate			
Substrate	Qualities available		Standard
Cold Reduced	DC01 + DC04		BS EN 10 130 : 1999
Galvatite®	DX51 + DX53		BS EN 10 142 : 2000

Dimensional limits				
Thickness (mm)		Maximum width (mm)		
≥	≤	CR	Galvatite DX51	Galvatite DX53
0.400	0.499	1300	1300	N/A
0.500	1.200	1420	1420	1420

Note: Consult Corus about dimensions marginally outside those shown in the table.

Substrates

Substrate selection normally depends on corrosion resistance requirements, but Corus have recently completed extensive work on special coatings for high corrosion resistance on cold reduced steel, which was previously not possible. This allows lower cost cold reduced substrate to be used in some applications which normally require a zinc coating.

Design and Fabrication

Substituting post paint with pre-finished steel normally requires some modification to product design, although usually minor. It also offers a wealth of patterns, textures and colours, which are not available using conventional systems. Corus offers free, confidential advice to designing and manufacturing with pre-finished steel. The key is to design with pre-finished in mind from the start allowing flexibility of manufacture.

Typical properties

Property	Colorcoat High Gloss Polyester and Colorcoat structured Polyester	Colorcoat Krinkle	One Coat Polyester	Colorstelve Markerboard Polyester	Stelvetite	Ceiling Polyester
Nominal organic coating thickness (µm) ECCA T1, BS 3900/C5	25	25-35	10	35	150-200 ¹	25
Gloss	70%	20%	35%	100%	15-20%	15%
Pencil hardness	F to H	N/A ²	F min	H min	N/A	F to H
Flexibility						
Reverse impact	18J	18J	12J	16J	12J	18J
Minimum bend diameter (T = substrate thickness)	2T	1T	4T	2T	0T	2T
Minimum bend radius (T = substrate thickness)	1T	0.5T	2T	1T	0T	1T
Adhesion						
Taping after T bend	no pick off	no pick off	no pick off	no pick off	no pick off	no pick off
Cross hatch	100%	100%	100%	100%	100%	100%
Corrosion Resistance						
Salt spray	Galv 450 CR 250 hrs	Galv 450 CR 250 hrs	N/A	Galv 450 CR 250 hrs	Galv 450 CR 250hrs	Galv 450 CR 250 hrs
Humidity	Galv 1000 CR 500 hrs	Galv 1000 CR 500 hrs	N/A CR 250 hrs	Galv 1000 CR 500 hrs	Galv 1000 CR 250hrs	Galv 1000 CR 500hrs
Abrasion resistance ³	25mg	10mg	25mg	25mg	10mg	20mg
Scratch resistance	2500g	3000g	N/A	3500g	>3500g	2500g
Maximum continuous operating temperature	120	120	120	110	50	120
Minimum forming temperature	16	16	16	16	20	16
Surface spread of flame	N/A	N/A	N/A	N/A	N/A	Class 1

Notes:

1. Film thickness depends on colour and pattern selected.
2. N/A = not applicable.
3. Loss at 250 revs, 1000g load and CS10 wheel.
4. Contact Corus for further information about these products.
5. All figures above are typical properties and do not constitute a specification.

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