

Estetic® BioAir

Bio-based, sustainable organic-coated steel for improved air quality

Estetic® BioAir is an innovative, eco-friendly range of organic coated steels, designed specifically for indoor use. The biological chemistry used to create Estetic® BioAir is completely new for organic coated products. The product ensures its sustainability thanks to the use of bio-sourced resin within the paint layers. The final dry product has about 70% bio-sourced content derived through organic chemistry.

Estetic® BioAir has received three stars and the OK bio-based label from the Belgian environmental inspection agency Vinçotte.

Estetic® BioAir has an A+ label for interior air quality. Estetic® BioAir also offers numerous advantages for BREEAM® & LEED® rating schemes.

- Made with bio-sourced resin
- Low levels of volatile organic compounds (VOCs)
- Improves indoor air quality
- Free of chromates and heavy metals

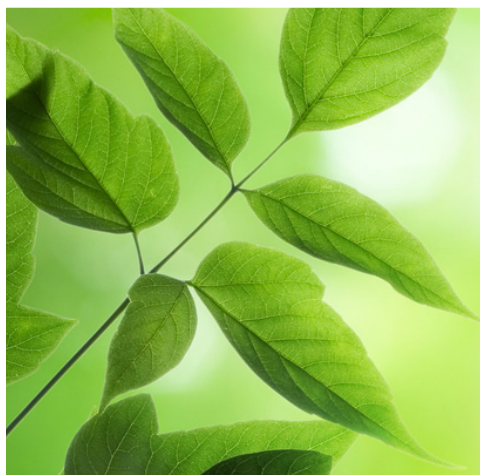
A steel solution for better indoor air quality

Estetic® BioAir emits very low levels of VOCs. While VOCs occur naturally in nature, they have been linked to health problems when found in high concentrations indoors. Estetic® BioAir provides the best level of indoor air quality and ensures the health and comfort of a building's occupants.

The surface of Estetic® BioAir is easy to clean compared to other materials and can resist the effects of cleaning agents, aromatics, mineral oils, and alcohols.

In addition to the A+ label granted by France, Estetic® BioAir has received the Eurofins Indoor Air Comfort (IAC) label. The Eurofins IAC label indicates that a product complies with low VOC emissions regulations in Europe.

Made with over 90% bio-based resin



free of chromates[®]
 Inspired by Nature
 and heavy metals

What influences air quality?

Indoor air quality affects the health and comfort of building occupants every day. It is influenced by every item that we place inside the buildings we occupy. Everything from paints to carpets and possessions can emit gases such as carbon monoxide, radon, and VOCs.

Over the long-term, these emissions can combine to impair the health of people who occupy the space. Indoor air quality guidelines and regulations are emerging in several countries and regions. The goal is to set safe limits and measure the level of air pollutants.

In France, products with with a reduced impact on indoor air quality – such as Estetic® BioAir – receive an A+ label certificate according to ISO 16000-9.



What is the “OK biobased” label?

OK biobased is a certification granted by the Belgian environmental inspection agency Vinçotte. OK biobased precisely measures the percentage of renewable organic carbon contained in the paint of tested products.

To measure the quantity of bio-based material, Vinçotte uses C14 dating (according to ASTM D6866). C14 dating measures the percentage of both renewable and fossil carbons in a product.

Applications for Estetic® BioAir

With increased interest in sustainable building design, attention has turned to air quality in buildings. Good air quality is now seen as a prerequisite in buildings designed for education, child care, sports and leisure, housing, healthcare, offices, and commercial activities.

Estetic® BioAir is an ideal solution in any built structure and can be utilised for:

- Ceiling systems (capping, tiles, perforated panels, accessories,...)
- Doors
- Furniture
- Partitions (including the interior side of sandwich panels or facade cladding).

In fact, **Estetic® BioAir** can be used on almost any interior surface suitable for a steel finish. It is easy to clean and emits low levels of VOCs, key advantages in sustainable new constructions and renovations. Thanks to these properties and its 100 percent recyclability, **Estetic® BioAir** has a positive impact when buildings are assessed against sustainable construction labels such as BREEAM® and LEED®.

Estetic® BioAir fully complies with Europe's REACH regulation on the registration, evaluation, authorisation, and restriction of chemicals. That means **Estetic® BioAir** is free of chromates and heavy metals. Life cycle assessment (LCA) and environmental product declaration (EPD) data are available.

Properties of Estetic® BioAir range

In addition to their environmental benefits, all products in the **Estetic® BioAir** range offer the same mechanical performance as ArcelorMittal's Estetic® steels.



Properties of Estetic® BioAir Mat

Coating	25 µm organic coating applied on a zinc-coated flat carbon steel substrate
Dimensions	Thickness: 0.2 to 1 mm Width: maximum 1500 mm depending on the thickness
Colours	White and light grey colours Specific colours on request
Gloss (Gardner 60°)	Usual 15 GU Possible: 5 to 20 GU
Adhesion	≤ 0.5 T
Flexibility	Resistance to cracking (T-bend) ≤ 2T
Scratch resistance (Clemen)	≥ 2 kg
Salt Spray Test (SST)	240 hours
Humidity test (QCT)	1000 hours/ CPI3
SVHC ¹	Exempt
Resistance to aromatics, mineral oils, and alcohols	Good

¹ Substances of very high concern included in annex XIV of Europe's REACH regulation.



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free of chromates[®]
Nspired by Nature
and heavy metals

Credits

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