



ArcelorMittal
DOFASCO | HAMILTON

Perspectra Plus Series™ Fact Sheet

Perspectra Plus Series™

Perspectra Plus Series™ is the next generation in our Perspectra Series® paint system. Perspectra Plus Series™ is now even more resistant to chalk, fade, chemical degradation and scratching. It uses state of the art Silicone Modified Polyester (SMP) technology and a new resin backbone which provides enhanced performance to end-users. The proven benefits include superior colour fade resistance to weathering, improved gloss retention and maximum hardness against scratching. It comes with the quality, service and technical support you have come to expect from ArcelorMittal Dofasco Inc. The Quality and Performance specification offers 40 years of film integrity and 30 years of stringent colour fade and chalk values for building industry applications like roofing and cladding across Canada and the continental US. Perspectra Plus Series™ is available on hot dip galvanized and on highly corrosion resistant Galvalume™ (55% Aluminum – 45% Zinc alloy coating).

Upgraded Quality and Performance Specification

Perspectra Plus Series™ was developed to deliver enhanced 30-year paint colour fade performance for non-vertical installations in building applications. It remains ideal for walls and cladding applications with outstanding 40-year paint film integrity, 30-year paint chalking resistance and excellent gloss retention. Perspectra Plus Series™ is still the preferred prepainted material for a wide range of applications for steel building systems (pre-engineered buildings), architectural panels, commercial, institutional, industrial projects and agricultural buildings. The manufacture of Perspectra Plus Series™ begins with high quality hot dip galvanized or Galvalume, made to rigid specifications and quality tested to meet the requirements of ASTM A653/A653M or A792/A792M. The coated steel is then painted on our modern continuous coil coating lines that carefully apply and factory-bake the paint system to the paint manufacturers' specifications. The final product is tested in accordance with stringent standards established by the National Coil Coating Association (NCCA) and American Society for Testing and Materials (ASTM). A Quality & Performance specification has been developed for Perspectra Plus Series™ standard colours applicable to anywhere

in Canada or the continental United States. For other geographic locations or nonstandard colours, individual Quality and Performance Specifications are available. Contact your ArcelorMittal Dofasco Representative for further information.

Benefits Of Prepainted Galvalume

When superior atmospheric corrosion resistance is required, particularly at tension bends and drip edges, specify Galvalume as the substrate for Perspectra Plus Series™. Projects constructed around coastal areas, as well as light or moderate industrial areas, have all benefited from the superior performance that the Galvalume substrate delivers. Contact your ArcelorMittal Dofasco Representative for guidance on substrate material selection.

Perspectra Plus Series™ Paint System

A schematic of the Perspectra Plus Series™ is shown in Figure 1. The colourful topcoat paint system is applied on the long proven flexible primer which enhances corrosion resistance, particularly at cut edges, scratches and bends, and covers the chemical pretreatment.

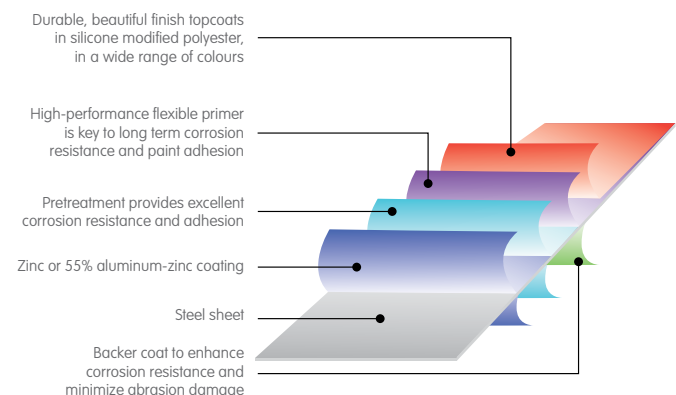


Figure 1

The chemical pretreatment is applied to promote adhesion between the primer and the metallic coating, which can be either Galvalume sheet with its highly corrosion resistant 55% aluminum-zinc alloy coating, or hot dip galvanized.

The unexposed side is typically pretreated and coated with a wash coat or backer coat to enhance the corrosion resistance and minimize abrasion damage.

Forty Standard Colours

Perspectra Plus Series™ offers 40 standard colours including 9 new shades that appeal to the creativity and imagination of architects and building designers. This new colour card for Perspectra Plus Series™ is the result of a carefully made selection of the most durable and popular colours requested by our customers. These proven colours all meet the upgraded Quality & Performance Specification and are broken into four colour groups, each having its own price.

The four colour groups are:

- Whites – 11 shades of white
- Earhtones – 17 pastel and earthtone colours
- Colours – 10 unique and beautiful colours
- Exotics – 2 bright and exotic colours

Additional colours, gloss and textures can be developed to meet unique project requirements. With colours being offered in groups, new colour pricing can be established quickly, while the paint formulation is confirmed later by laboratory colour matching. For new developments of Exotic colours, individual pricing will be quoted.

Perspectra Series® paints have proven creativity, versatility, durability, and economy – Perspectra Plus Series™ builds on this legacy of proven performance.

Environment and Sustainability

LEED (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN): Created by the United States Green Building Council (USGBC) and endorsed by the Canadian Green Building Council (CaGBC), LEED is the most widely accepted standard used to establish a sustainability rating for buildings. Metal building components painted with Perspectra Plus Series™ can contribute to achieving LEED points, primarily in the Sustainable Sites, Atmosphere and Energy and Materials and Resources credit categories.

COOL ROOFING AND ENERGY STAR RATINGS:

The Cool Roof Rating Council (CRRC) was created to develop accurate and credible methods for evaluating and labeling the solar reflectance and thermal emittance (radiative properties) of roofing products. Similarly, Energy Star is a voluntary program established by the US Environmental

Protection Agency to identify and promote energy-efficient products and buildings in order to reduce energy consumption, improve energy security, and reduce pollution. Energy Star qualified roof products must meet minimum initial and aged solar reflectance values. Several Perspectra Plus Series™ colours meet these minimum solar reflectance requirements and when used on metal roofing components, will contribute to reducing energy consumption.

Inventory Control Considerations

To minimize the risk of mixing Perspectra Plus Series™ with Perspectra Series® in your inventory, the following are recommended practices to keep master coils and fabricated products made from Perspectra Plus Series™ separate:

- use your current inventory of Perspectra Series® prepainted steel coils before processing new Perspectra Plus Series™ coils of the same colour
- ensure that the coil tags stay on the remainder of the coil to identify it as Perspectra Plus Series™ and to reference its colour QC number
- identify all processed sheet bundles with a clearly visible marking system (e.g. coloured tags) that can be used to identify bundles of the two paint systems
- keep inventory of the two paint systems in coil or fabricated sheet form physically separate in your plant
- communicate the importance of not mixing inventory of the two paint systems to all personnel involved in purchasing, operations, packaging, shipping, material handling and installation, including your distributors.

During the transition, each coil of the Perspectra Plus Series™ will be labelled on the outside wrap and the eye of the coil with brightly coloured stickers saying “NEW PAINT SYSTEM – DO NOT MIX”

Job Site Storage and Maintenance

Building products made from Perspectra Plus Series™ should be kept dry in transit and covered during storage at the job site. Bundles should be stored above ground at a slight angle, to prevent water or condensation build up between adjacent sheets. For advice on other job site considerations such as transit abrasion, removing installation debris, field cutting sheets, compatibility with other building accessories, insulation, joining, and sealing, refer to “Guide To Good Practices” obtainable from your ArcelorMittal Dofasco Representative.

With a little care and attention, roofing and cladding made from Perspectra Plus Series™ will provide extended service life. Although factory applied, these durable paint finishes for building panels should be cleaned thoroughly on a routine basis at least once a year. Applications where the paint finish is washed by rain do not normally require this maintenance.

R - Perspectra Series is a registered trademark of Baycoat Ltd.
TM - Perspectra Plus Series is a pending trademark of Baycoat Ltd. in Canada and the United States.
TM - Solutions in Steel is a trademark of ArcelorMittal Dofasco Inc.
TM - Galvalume is a trademark of ArcelorMittal Dofasco Inc. in Canada, and a trademark of BIEC International Inc. in the United States.

SPECIAL CUSTOMER NOTE:

The information in this Fact Sheet is provided for the general guidance of customers and does not imply any liability beyond that implied in the Quality & Performance Specification. The information provided is based on research conducted by ArcelorMittal Dofasco and other organizations. Interpretation and/or use of this information is the sole responsibility of the user. For further details, contact your ArcelorMittal Dofasco Representative at 1-800-816-6333

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