Formable, Strong, Versatile, Durable, and Aesthetically Pleasing
Steel is Style
Chromadek coil tensioned during the paint process on the paint line at ArcelorMittal Vanderbijlpark Works.
Formability

Steel is generally regarded as a rigid material that offers strength and longevity. With Chromadek, form meets function and offers versatile design possibilities desired by architects, profilers and property developers in steel colour coated roofing and cladding.

Testing for formability and durability

At ArcelorMittal South Africa, the home of Chromadek, we’re proud to announce that exhaustive tests are done on Chromadek to ensure it meets the requirements that will stand the test of time.

To ensure paint longevity the following tests are done on the Chromadek paint system:

- a bend test to determine resistance to paint cracking
- wet and dry film thickness to ensure paint thickness
- hardness and gloss after curing
- reverse impact testing to ensure adhesion
- solvent rub tests to ensure proper curing

Collectively the tests done on Chromadek ensures that Chromadek remains in a steady state when the demands of exposure is placed on it.

Make Chromadek your preferred roofing solution
Chromadek Ultim is the ideal choice for coastal and heavy industrial applications. This ultimately enables colour coated steel roofing to be applied in some of the most demanding environments in Africa.
Know what you buy

At first glance roofing paint systems appear similar but each has qualities and properties that set it apart more so with Chromadek. When you see a Chromadek roof it’s designed in a paint system that’s unique and specifically developed for African climatic conditions.

The uniqueness of Chromadek resides in the paint coating which is oven cured at elevated temperatures. Through enhancements made to the paint system the following can be realised:

- Improved gloss and colour retention ensuring longevity
- A heat reflective colour range that’s energy efficient

As the paint system is applied under controlled conditions on a continuous paint line the result is exceptional paint adhesion and corrosion resistance unequalled by any hand painted roofing and unmatched by alternative roofing materials.

Chromadek provides the assurance of colour coated steel roofing and cladding that carries a warranty. The paint system is designed to provide resistance to fading, blistering and chalking taking into account fluctuation from the natural elements of heat, cold, hail and UV rays to which Chromadek is exposed.

The identity of Chromadek is maintained in the African Heritage range of 14 colours that Chromadek is produced in. Each colour carries a unique signature that adds the finishing touches to a steel roof.

To make sure it’s authentic Chromadek look out for the branding on the reverse side of the roof sheeting.

Coating configuration

Chromadek is available as either Chromadek Standard or Chromadek Ulti™ designed for exposure and use in different atmospheric conditions:

**Standard Chromadek**

- Is intended for use under rural, industrial (mildly chemically polluted) or moderate marine conditions
- Comprises a Z200 hot-dipped galvanized substrate pre-primed with a primer (Dry film thickness (DFT) of 5µm) and finished with a final paint coat (DFT of 18 - 22µm) on the top surface.
- A single backing coat (DFT of 8µm) is normally applied to the reverse side of the sheet.

**Chromadek Ulti™**

- Is intended for heavy industrial or marine conditions
- Comprises a Z275 hot-dipped galvanized substrate, pre-primed with a chrome free primer (DFT of 20µm) and finished with a final coat (DFT of 18 - 22µm) on the top surface, giving a total dry film thickness of 38 - 42µm.
- The reverse surface is coated with a 10µm corrosion resistant chrome free primer and a 10µm top surface paint system.
Chromadek as used for industrial buildings.
**Strength**

Chromadek® is a lighter and stronger roofing material of choice that’s 80% lighter than non-steel roofing. This translates to a saving on the roof structure, construction time and ultimately cost.

With steel roof sheeting selection not all colour coated steel sheeting complies with the design requirements for structural roofing materials. While colour coated steel roof sheets are often referred to as Chromadek® the one sure way to ensure it’s authentic and guaranteed is to check for the unique Chromadek® branding on the reverse side of the coil or profiled roof sheet.

**Maintenance**

The superior corrosion resistance, of Chromadek® reduces maintenance costs as it does not require repainting for many years after installation.

The appearance and properties of Chromadek® can be safeguarded by proper handling, storage, installation and maintenance procedures. Chromadek® should be stored in a dry, well-ventilated area, clear off the ground. Sheet should not be allowed to get wet while bundled or nestled in stacks. If a pack does become wet, the sheets should be separated as soon as possible and the surfaces dried with a cloth. Sheets should then be stacked so that free air circulation completes the drying process.

When handling Chromadek® on site, care should be taken not to damage the surface finish. If the paint surface should become scratched, either during installation or later on, specially formulated air-drying touch-up paints are available. When touching up the surface it first have to be cleaned of any dirt, grease or chemical pollutants that might be present.

To keep your Chromadek® roof in pristine condition for as long as possible, surfaces should periodically be washed down with water and a mild detergent to prevent the accumulation of corrosive debris such as leaves, dirt and pollution fallout. This is especially recommended for Chromadek® in a corrosive environment.

The following is a guideline for the application of Chromadek®.

**Chromadek® Warranty table:**

<table>
<thead>
<tr>
<th>Colour coated product</th>
<th>Coating thickness</th>
<th>Rural unpolluted</th>
<th>Urban inland/industrial</th>
<th>Terms and conditions apply to warranty, Marine/ heavy industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Product</td>
<td></td>
<td>CI/CI* Low corrosion risk</td>
<td>CI* Medium corrosion risk</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry with occasional condensation - no specific pollution</td>
<td>Higher humidity with some air pollution or mild coastal (0-5 km from HWM)</td>
<td>Exterior environment of buildings located 1 to 5 km from HWM</td>
<td>Industrial area, high humidity/ coastal salinity (&gt;400 m to 1 km from HWM)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Colour coated product</th>
<th>Coating thickness</th>
<th>NR: Not recommended for use in coastal environments.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromadek</td>
<td>40</td>
<td>10 20 10 20 NR NR NG NG</td>
</tr>
<tr>
<td>Chromadek Classic</td>
<td>60</td>
<td>10 20 10 20 10 20 10 15</td>
</tr>
</tbody>
</table>

* Based on environment and corrosion categories as outlined in ISO 9223 and ISO 12944 standards.
# The top coat thickness which includes metal and paint systems.
* Natural weathering degradation curves as provided in datasheet C.1.4
NR: Not recommended for use in coastal environments.
HWM: High Water Mark
NG: No Guarantee
Terms and conditions apply to warranty.
Versatility

Versatile and aesthetically pleasing

Chromadek® offers great versatility for roofing and cladding applications. South African architects use Chromadek® in a variety of roofing and cladding projects ranging from churches, shopping malls, factories, warehouses and airports to luxury eye-catching homes and housing estates.

Chromadek® is exceptionally colourfast with warranties given on application. The Chromadek® African Heritage Colour Range consists of 14 exciting colours that captures the essence of the African environment and reflects the continent's unique colours and hues, allowing designers complete freedom of expression in roofing and cladding.

Inspired by Africa, perfected by us.

These distinctive colours add personality to projects unmatched by any other roofing material.

The range has evocative colour names such as:

Fish Eagle White
White Lion
Sunrise Orange
Sunset Gold
Aloe Green
Traffic Green
Unhonga White
Bright Blue
Azure Blue
Blue Grey
Dark Silver
Charcoal Grey
Kalahari Red
Buffalo Brown

* Heat reflective Chromadek®
Some of the colours in the Chromadek® range are heat reflective. Produced by utilising an advanced thermal technology paint system, incorporating a heat reflective pigment providing up to an 8 °C cooling effect and improved durability.

Heat reflective Chromadek® offers the following benefits:
- Increased durability.
- Increased gloss retention.
- Improved colour stability (less fading).
- Sustainable film integrity.
- Reduced heat transfer into buildings.
Not only inspired by nature, but protectors of nature: Roaming in protected enclosures at ArcelorMittal’s Vanderbijlpark Works are various forms of wildlife including zebra, ostriches, springbok, flamingoes and this friendly eland.
Colour range

The Chromadek® African Heritage Collection

Fish Eagle White  White Lion  Sandstone Beige  Gemsbok Sand  Aloe Green  Traffic Green  Umhlanga Wave

Kingfisher Blue  Azure Blue  Dove Grey  Dark Dolphin  Charcoal Grey  Kalahari Red  Buffalo Brown

All colours in the Chromadek® African Heritage Collection are available in both Chromadek® and Chromadek Ultima®.