



ArcelorMittal

Chromadek[®]

Your preferred local roofing & cladding solution



Chromadek[®]

Chromadek Ultim[®]



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This iconic Cell C building based in Midrand, Gauteng, South Africa, was built utilising ArcelorMittal South Africa galvanised steel for all the light steel frame construction and cladded with Chromadek , Charcoal Grey.®



Chromadek®



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Driven by the desire to inspire smarter building

Insist on Chromadek[®] - The most recognised roofing and cladding brand in South Africa.

Chromadek[®] has been used for more than 25 years by most construction professionals and utilised in various steel building award-winning projects.

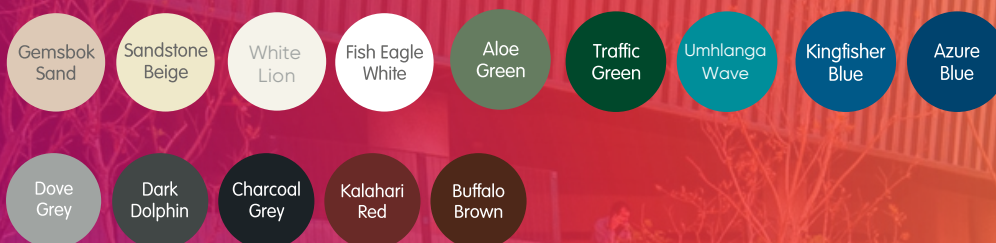
Chromadek[®] draws on design for purpose.

At inception, Chromadek[®] derives its structural strength from its steel core, coated with a metallic zinc coating also known as the galvanised layer.

This layer ensures that both the structural integrity and steel core are preserved for functionality.

Once the longevity of the steel core is secured by the metallic zinc coating, Chromadek[®] is aesthetically enhanced.

This, linked to the African Heritage colour range, makes Chromadek[®] an instantly recognised colour-coated steel roofing option - an excellent choice in style.



Chromadek[®] Ultim[®]

Chromadek[®]



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ArcelorMittal South Africa

The home of Chromadek®

With roots stretching back to 1928, ArcelorMittal South Africa is the largest steel producer in sub-Saharan Africa. Headquartered in Vanderbijlpark, ArcelorMittal South Africa is a proudly South African company. With a legacy of more than 90 years, and is part of the world's leading steel producer. Our global footprint spans over 160 countries and boasts world-class research and development centers second to none.

As a most recognised roofing and cladding brand in Sub-Saharan Africa, Chromadek® has for many years been the preferred local colour coated steel choice.

We offer the following benefits when utilising our colour coated product range:

- Quality product
- Flexibility of choice
- Industrial capacity
- Distribution network
- Warranty
- Commercial project support
- Customer technical assistance
- On-site inspection

Quality product	A premium quality steel product that meets recycling, waste and sustainability requirements.
Flexibility of choice	Our broad product range enable architects to communicate their most daring and original visions.
Industrial capacity	Our industrial volume capacity allows us to supply to the biggest projects on the continent.
Distribution network	We have access and collaborate with large roofing and cladding profilers across the continent.
Warranty	Chromadek® is backed with a 10, 20 or 30-year warranty to provide peace of mind.
Commercial project support	Our team of product specialists can support professional teams over the rollout of the project.
Customer technical assistance	Expect market expertise and technical assistance throughout all stages of the project.
On-site inspection	Technical support for on-site inspection is available after the project has been completed.

* Terms & Conditions apply



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The Chromadek® colour range

Fish Eagle White



Kingfisher Blue



White Lion



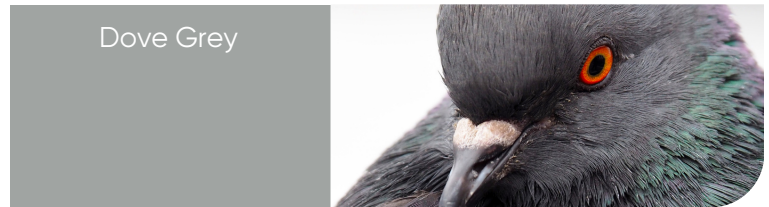
Azure Blue



Sandstone Beige



Dove Grey



Gemsbok Sand



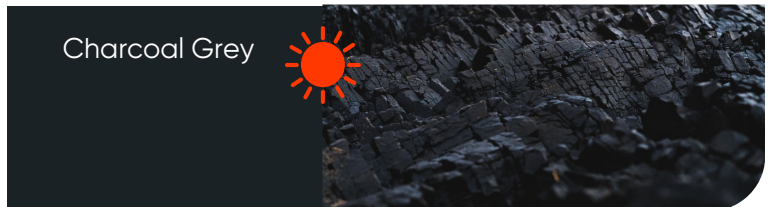
Dark Dolphin



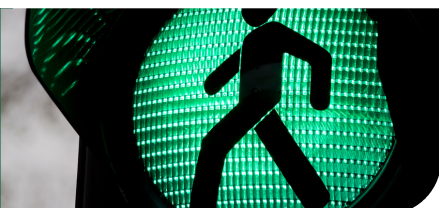
Aloe Green



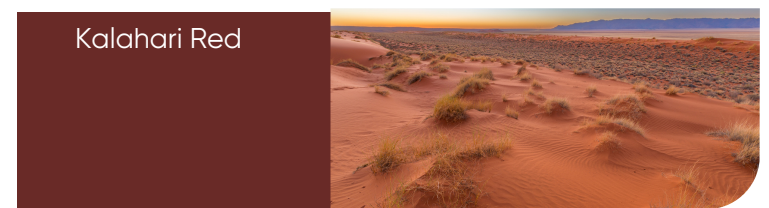
Charcoal Grey



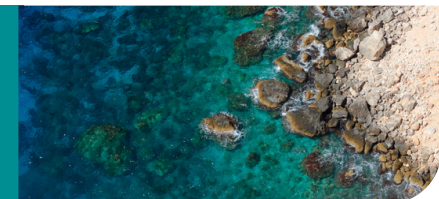
Traffic Green



Kalahari Red



Umhlanga Wave



Buffalo Brown



Why Heat Reflective?

Colour on print is not the same as actual colour depicted, ask for a true color steel sample

- Increased durability
- Increased gloss retention
- Improved colour stability (less fading)
- Sustainable film integrity
- Reduced heat transfer into buildings



What is Chromadek Ultim[®]?

Chromadek Ultim[®] has specifically been developed for heavy industrial or marine conditions i.e applications in C4/C5 (High corrosion risk) regions.

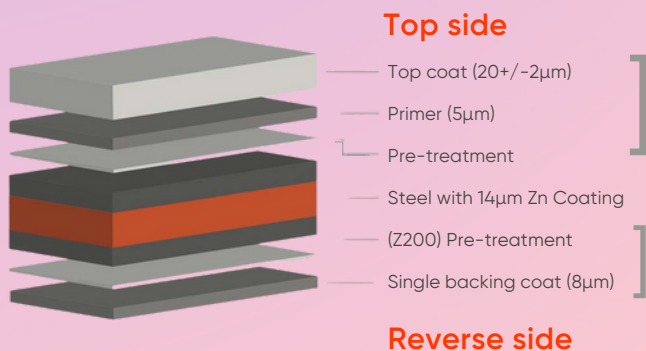
Chromadek Ultim[®] has a Z275 hot dipped galvanised substrate and a total coating (top and bottom layer) of 275g/m² zinc, which is 75g/m² more zinc than Chromadek[®] offering better corrosion resistance.

It is pre-primed with a chrome-free primer that is 15µm thicker than standard Chromadek[®].

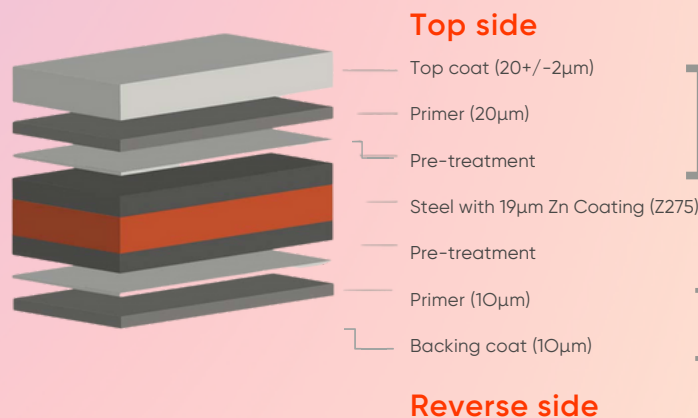
Chromadek Ultim[®] is suitable 400m from the salt marine high watermark, and or heavy industrial areas.

This comparison illustrates the layered composition of the two different products.

Chromadek[®]



Chromadek Ultim[®]



Did you know?

Chromadek Ultim[®] is a superior roofing product for coastal applications as the secret lies within the primer.

The role of the primer is to promote adhesion ensuring the corrosion resistance of the top or bottom coat application, usually applied from 5µm, however in Chromadek Ultim[®] the top coat primer is 20µm.



8 reasons to **choose** Chromadek®

Supreme



This supreme colour-coated steel is locally manufactured and fit to use for roofing, cladding, solar installation, sign boards, rolling doors and cool rooms.

1

2

Cut-edge protection



The cut-edges on Chromadek® sheets are not prone to corrosion as the zinc of the galvanized substrate cathodically protects the exposed edge.

3

4

Advanced Technology



Our advanced thermal technology paint system incorporates a heat reflective pigment that provides up to an 8 degrees Celsius cooling effect and improved durability. Any Chromadek® roof in the heat reflective colours (Aloe Green, Buffalo Brown, Dark Dolphin or Charcoal Grey) can become cooler when exposed to the sun as it gets hotter.

5

6

Fit for solar application



Solar can be installed on Chromadek® material.

Refer to the ArcelorMittal technical guide on solar installation.

7

8



Resistance

The oven-cured paint system has been specifically developed for the harsh African sun. It is designed to provide resistance to fading, blistering and chalking as well as fluctuation from the natural elements of heat, cold, hail and UV rays to which a roof is exposed.



14

Colour variety

Both Chromadek® and Chromadek Ultim® is available in the African Heritage collection consisting of 14 standard colours. Four of these colours are heat reflective and all 14 standard colours are priced the same.



Fit for coastal application

Chromadek Ultim® offers a colour coated option for coastal areas. The Chromadek® range covers the entire African continent for in-land and coastal applications



Green

Steel is 100% recyclable. Both Chromadek® and Chromadek Ultim® are the only local organic coated material supplied as chrome free. This contributes to the environmental sustainability of the product.



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How (and where) to achieve a warranty

As the manufacturers of Chromadek® colour coated organic painted coil, ArcelorMittal South Africa takes pride in backing our brand by issuing a warranty relevant to the installation location and product suitability.

The most important information ArcelorMittal South Africa will need to issue a warranty, is the coil number. As soon as you have traced it, be sure to supply it together with the product installation location to the relevant next in line.

There are identification markings that are printed on the backing coat. For your convenience, it is printed every two meters which makes it easier to spot when trying to establish its authenticity.



As a rule, we recommend that the contracting parties follow the method of communication from end user back to manufacturer. For a warranty:

If you are:

- A Home owner
- An Architect
- Building professional / Roofing contractor
- A Building material supplier
- A Profiling organisation

Consult with:

- Building professional/ Roofing contractor
- Building professional/ Roofing contractor
- Your Supplier/ Roofing profiler
- The Profiling organisation
- Your manufacturer



Chromadek®



How (and where) to achieve a warranty

Use the below table to estimate what warranty you will achieve:

Chromadek® (Coating thickness-40µm)

Type of environment	Rural Unpolluted	Urban Inland	Marine/Heavy Industrial	
Kilometers (km) from high water mark		>5km	1-5km*	>400m-1km*
Region code	C1/2	C3	C4/5	C4/5
Corrosion risk	Low	Medium	High	High
Weathering & non-peeling warranty	10 years	10 years	NR	NG
Non-perforation warranty	20 years	20 years	NR	NG

Chromadek Ultim® (Coating thickness-60µm)

Type of environment	Rural Unpolluted	Urban Inland	Marine/Heavy Industrial	
Kilometers (km) from high water mark		>5km	1-5km*	>400m-1km*
Region code	C1/2	C3	C4/5	C4/5
Corrosion risk	Low	Medium	High	High
Weathering & non-peeling warranty	10 years	10 years	10 years	10 years
Non-perforation warranty	30 years	30 years	20 years	15 years

Note: Terms & Conditions apply to warranty

* Refer to datasheet C1.4 pg. 7-8 for warranty details.
NR- Not recommended, but can be considered with manufacturers agreement
NG- No Guarantee

Upon issuing a warranty, we offer a complimentary on-site inspection to ensure that the necessary installation- and product handling requirements are met.

Use this roof Installation checklist when installing your next roof.

- Ensure the use of the correct coating type suitable for the right application and location.
- Remove all metal deposits after construction.
- Avoid damage to the paint coating where sheets overlaps or -ends.
- The minimum permitted roof pitch is two degrees. Flat roofs become problematic because of static water.
- Ensure that the correct class-, quality- and type of fastener is used.
- Avoid sparks from angle grinder when cutting roof sheets.
- Schedule regular maintenance as it is recommended to clean and wash roofs regularly.



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How to specify Chromadek[®] for your next project

For a comprehensive specification, the following need to be covered:

- Roofing profile type (Roof sheeting profile i.e standard or concealed fix system)
- Brand colour name
- Coating type (Z200 or Z275)
- Preferred thickness

Example specification:

Concealed fix system, Dark Dolphin, Z200, ISQ550, 0.47mm, Chromadek[®]

1 Brand colour name

Use the specific colour name that you require.

By simply specifying the heat reflective colour by name, the technology is standard to the colour.

2 Coating type

Standard Z200 Chromadek[®] or Z275 Chromadek Ultim[®]

The building location will determine the correct option.

3 Preferred thickness

Choose between 0.47mm, 0.50mm, 0.53mm, 0.58mm or 0.80mm.

Note: This is optional to add – For more information about this, please visit chromadek.arcelormittalsa.com

Did you know?
Chroma means
the purity or
intensity of colour.

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One of South Africa's largest shopping centre
The Mall of Africa, situated in Waterfall, Midrand, Gauteng was roofed utilising Craft-Lock , White Lion, 0.58mm, Chromadek®



The Chilleweni Cold Storage Solutions building was one of the 2019 SAISC Category building winners. This project utilised 11 100m² Klip-Tite™ Chromadek® material



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Make the **right choice** when it comes to your **roofing and cladding solutions**.

Photo credits: Global Roofing Solutions; Clotan Steel

Scan here to visit the Chromadek website



Scan here to visit the ArcelorMittal South Africa website



For further technical information, please review the following documents available on the ArcelorMittal South Africa website:

- Colour chart and technical performance (C1.9)
- Warranty & claim procedure (C1.5)
- The guide for handling and protection (C1.10)
- Heat reflective benefits chart (C1.11)



arcelormittalsa.com/products



chromadek.arcelormittalsa.com



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How to **handle** and **protect** your product

To prevent wet storage corrosion, ensure nested packs, coils or sheets remain exposed to continuous freely circulating air. The protective nature of both the zinc and paint coating may be seriously impaired when exposed to wet conditions for extended periods of time in the absence of air.

When this happens, the zinc surface becomes susceptible to corrosion during prolonged storage without the necessary precautions.

Wet storage corrosion, often referred to "white rust" or "wet-storage stain" on galvanised sheeting, may cause discoloration of the paint film. This can affect the expected maintenance-free life of the sheeting unless addressed at an early stage.



Here's how we help to **preserve** your **Chromadek[®]** purchase

If galvanised and colour coated coil or profiled sheets are not required for immediate use, coils or packs of sheets must be stored off the ground on site under properly designed cover, protected from wind-driven rain.

Plastic tarpaulins that completely envelop packs of sheets or coils should not be used, because a sudden drop in ambient temperature may result in the formation of condensation or water vapour which can easily be drawn in between nested sheeting by capillary action.

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