



Version June 2020

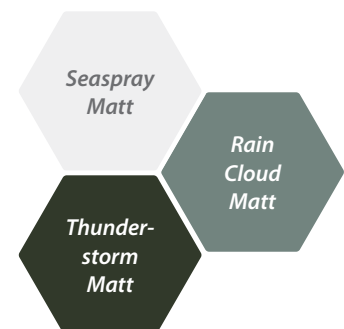
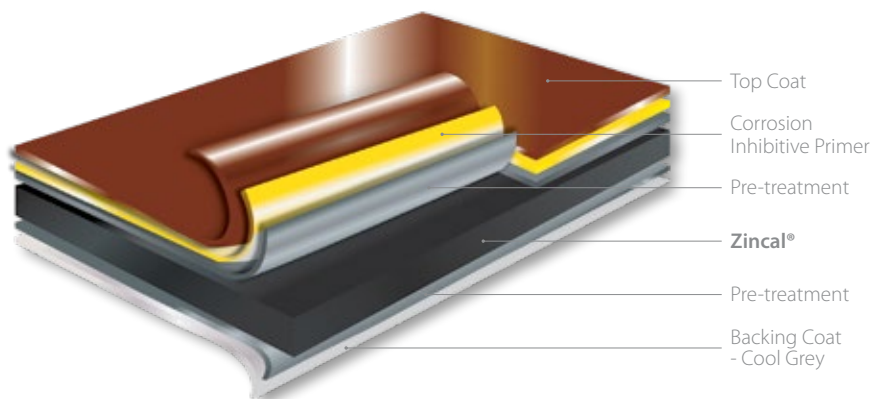
A Subtle Statement

The new **Colorplus®** Matt range offers muted finishes with an enhanced smooth texture. Suitable for both roof sheeting and interior cladding which provides an alternative aesthetic appeal for those who prefer a softer, subtle and more natural matt effect.

Using modern research and development techniques, the paint chemistry enhances forming flexibility, corrosive properties and offers a subdued gloss finish.

The paint finish is applied onto a **Zincal®** substrate for optimal durability. **Zincal®** is rolled steel which has been continuously hot dipped into a 55% Aluminium, 43.5% Zinc and 1.5% Silicon Alloy. **Colorplus®** Matt is suitable for all roofing profiles – concealed seam, standing seam and pierced profiles.

Cross Section of **Colorplus®** Matt



*Colours reproduced here may vary. Other colours are available on special order.

Technical Specifications

Safal Steel Colorplus® Matt AZ 100/AZ 150/AZ 200 (refer to product selection guide) Grade G550 or G275

Mechanical Properties

	G550	G275
Yield strength, MPa	550	275
Tensile strength, MPa	570	380
Elongation on 50mm GL%	NA	16

Guaranteed minimum at ambient temperature

Standards	Mechanical Grades	Colour Specifications
ASTM 792/M	G550 + G275	NA
SANS 9364	G550	NA
SANS 1845	NA	Paint Characteristics

Supply Conditions

AZ 100/AZ 150/AZ 200	18-20µm top coat
	5µm corrosion inhibitive primer
	7µm backing coat – cool grey
	<i>* For applications in severe coastal conditions additional primer 5µm will be applied to AZ 200</i>
Flatness	ASTM 924M and ISO 16163

Base Metal Thickness (mm)

Range	Tolerances	
	Width ≤ 1200	Width > 1200
0.45 - 0.5	± 0.03	± 0.04
>0.5 - 0.8	± 0.04	± 0.05

Specific requirements possible on agreement. Base metal thickness is **Zincal®** coated thickness

Coil Width

Range	Tolerance
925mm - 1220mm	+5 / -0

Colorplus® Colour Fading

Colour	Maximum Fading ΔE CIELab (Cleaned) ASTM 2244	Maximum Chalking (Tape-off Test) ASTM 0-4214-07	Physical Parameters (within 10 years)
Light colours L ≥ 60	6	6 (10 years)	Peel, crack, check, chip
Dark colours L < 60	15	6 (10 years)	Peel, crack, check, chip

Result may change depending on climate conditions. * Warranties available upon pre-application

Branding

SAFAL STEEL COLORPLUS MATT 925 x 0.5 TCT (0.46 BMT) AZ 150 Coating 45107-1-1

Guideline for Product Selection

	Zone C1-C2	Zone C3	Zone C4	Zone C5
	Urban, rural, low levels of airborne pollution	Light industrial, average marine corrosion	Large commercial, medium industrial or high marine corrosion	Heavy industrial or severe marine zones
	40km or more from the splash zone	1 - 40km from the splash zone	400m to 1km from the splash zone	100m to 400m from the splash zone
AZ 100				
AZ 150			No exposed bottom surface	
AZ 200				Cut edges to be sealed

*Zone classification C1-C5 as per SANS 9223 and SANS 10400L

- All **Safal Steel** Prime material is branded on the backing coat - insist on **Safal Steel** material
- For any technical queries please contact **Safal Steel** and ask for the representative in your area

Fire Rating

Property	Grading	Standard
Combustibility	Non-Combustible	SANS 10177-5
Flame Spread (FS)	No Flame Spread	SANS 10177-9
Fire Resistance Rating (FRR)	>30 minutes*	SANS 10177-2

* Based on 0.55mm thickness

Coating Weight*

Coating Class	Minimum (g/m ²)	AZ Coating Thickness/microns
AZ 100	100	27
AZ 150	150	40.5
AZ 200	200	54

* Triple spot testing

Typical Reflective Index

Colour Range	Total Solar Reflectance	Thermal Emittance	Solar Reflectance Index
Rain Cloud Matt	32%	0.87	34
Seaspray Matt	66%	0.86	79
Thunderstorm Matt	22%	0.87	20

Coating Adhesion - 180° Bend Test

Coating Class	Guaranteed Minimum	
	G550	G275
AZ 100/AZ 150/AZ 200	2t	1t

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