

## GENERAL DESCRIPTION

ColoRite AB (Anti-Bacterial) Pre-painted steel is developed to provide Microbial protection for interior and exterior applications with good weatherability & good formability. The anti-microbial agent in the paint is designed to inhibit the growth of odor causing bacteria and prevent product deterioration of the product from mold and mildew.

**Anti-Weathering Limited Warranty: 7 Years (UNICOIL Technical terms and conditions applicable).**

## DIMENSIONS: (For normal supply products)

THICKNESS*(MM)(TCT-P)	WIDTH**(MM)	ZINC COATING (GSM)
0.35 to 1.20	700 to 1,300	Minimum 180 (G60)

\*For grade SS50, minimum thickness is 0.46 mm

\*\*For width less than 700 mm are supplied with slit edge

For specific dimensions please contact Sales and Marketing Dept.

**TCT-P – Total Coated Thickness with Paint Film (Steel thickness + Zinc coating thickness + Paint thickness)**

## SUBSTRATE

Galvanized steel – G60 (180gsm)

## TYPICAL USES

Roofing and walling, Sandwich Panels for Cool Room & Clean Room Applications, K-Span, Shutter doors, Door Frames etc.

## ADVANTAGES:

- Surface Protection from Stain and Odor Causing Bacteria.
- Surface Protection from Molds and Discoloration.
- Reduces 99% of Most Common Bacteria.
- Cost Effective Solution for Antibacterial Applications.
- Higher Protection for Your Health and Environment.

Recommended for Clean Rooms, Cool Rooms and Cold Storage Cabins

Note: This product is not an alternative to the good cleaning practices

## Standards & Grades








Standard	Description	Sub-Strate Standard	Grades
SASO ASTM A755/ A755M	Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Pre-painted by the Coil-Coating Process for Exterior Exposed Building Products.	SASO ASTM A653/A653M	CS-Type A, B, C, FS Type A, B,
ASTM A755/ A755M	Standard Specification for Steel Sheet, Metallic Coated by the Hot-Dip Process and Pre-painted by the Coil-Coating Process for Exterior Exposed Building Products.	ASTM,A653/A653M, ASTM,A792/A792M, Aluminum Flat coils	SS33, SS37, SS40, SS50, SS55, SS60 & SS80
EN10169	Continuously organic coated (coil coated) steel flat products Technical delivery conditions	EN 10346	DX51D, DX52D, S220GD, S250GD, S280GD, S320GD, S350GD, S390GD, S420GD & S550GD
JIS G3312	Pre-Painted Hot Dip Zinc coated Steel Sheet and Strip	JIS G3302	SGCC, SGCD1,S-GC340, SGC400, SGC440 & SGC570
AS 2728	Prefinished/pre-painted sheet metal products for interior/exterior building, applications Performance requirements	AS 1397	S250, S300, S350, S450, S550











## Paint System

<b>Pretreatment</b>	Corrosion resistance proprietary conversion coating each side
<b>Primer Coat</b>	Universal Corrosion inhibitive Primer Nominal thickness- 5µm each side
<b>Finish Coat</b>	Custom formulated system with Microbial agent. Nominal thickness 20 µm microns on the top or weather side.
<b>Backing Coat</b>	Foam compatible epoxy coat or Polyester based custom formulated off white Nominal thickness: 5-7 µm. Back coat can be in the same topcoat color and DFT as required
<b>Gloss (60°)</b>	Nominal 30±5% Other gloss levels may be available on request

### GUARANTEED PAINT PROPERTIES


	TEST	TEST METHOD	DESCRIPTION	RESULTS
	Hardness (Pencil)	ASTM D 3363	Pencil	F or harder
	Adhesion -T bend	ASTM D 4145	T-bend	3T or less (No Pickoff)
	Flexibility	ASTM D 4145	T-bend	3T or less (no cracking)
	Adhesion - Reverse impact	ASTM D 2794	Reverse impact	> 10 joules
	Cross hatch	ASTM D 3359	Cross hatch	> No paint removal
	Gloss 60° (%)	ASTM D 523	Gloss	30±5%
	Color Difference	ASTM D2244	Light colors	Δ E : ≤1.0
			Medium Colors	Δ E : ≤ 1.5
			Dark Colors	Δ E : ≤2.0 / Visual match
			Metallics	Visual match

EXPECTED PRODUCT SERVICE PERFORMANCE				
	PROPERTY	TEST METHOD	DESCRIPTION	RESULTS
	<b>Resistance to UV (QUV-A) ASTM G53</b>	Exposure Hours		1000 Hrs
		ASTM D2244	Color Change	DE Hunterlab - Light color ≤4 Int.Color ≤6 Dark color ≤8
		ASTM D4214	Chalking	ASTM Rating 4 - 2
		ASTM D523	% Gloss Retention	≥ 40
	<b>Natural well washed exposure ASTM G7</b>	Exposure Years		7 Yrs
		ASTM D2244	Color Change (Non Vertical)	DE Hunterlab - Light color ≤6 Int.Color ≤9 Dark color ≤12
		ASTM D4214	Chalking	ASTM Rating 4 - 2
		ASTM D523	% Gloss Retention	≥ 30
	<b>Resistance to corrosion (Salt Spray) ASTM B117</b>	Exposure Hours		500 Hrs
		ASTM D714 & ASTM D1654	Blister Density, Size & Corrosion Creep	Blister density- Few, Blister size rating ≥8 Undercut from scribe ≤2mm
	<b>Resistance to humidity at 38± 1°C ASTM D 2247</b>	Exposure Hours		1000 Hrs
		ASTM D714	Blister Density & Size	Blister density- Few, Blister size rating ≥8
	<b>Resistance to abrasion</b>	ISO 1518	Scratch	≥ 2000gms
	<b>Resistance to Heat EN 13523-13</b>	ASTM D2244	90°C - 700 hours or 60°C - 1000 Hours	ΔE ≤ 5 , ΔGloss ≤ 7%
	<b>Resistance to fire</b>	BS 476 Part 7	Fire rating	Class M1
	<b>Resistance to Micro-organism</b>	ASTM E 2180	Micro Organism	Staphylococcus aureus, E Coli- Min 99% reduction


## NOTE

1. For most products, the metallurgical process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.

2. Values quoted are for standard  colours under normal well washed conditions of exposure.

If it is intended to use  in an exterior application within 1 km of salt marine location, or severe industrial or abnormally corrosive environment, or in areas not washed by rain or in applications where it will be wholly or partially buried in the ground, please contact UNICOIL for advice.

Improper storage or use of non approved roll forming lubricants may adversely affect colour. Material which becomes wet while in stacks or bundles must be separated and dried.

3.  has good resistance to accidental spillage of solvents such as methylated spirits, white spirits, mineral turpentine, trichloroethylene and dilute mineral acids & alkalis. However, all spillages should be immediately removed by water washing and drying.

4. Properties guaranteed on minimum G60(180 GSM).

