
















<p><b>GENERAL DESCRIPTION</b></p> <p><b>COLORITE HIGH BUILD</b> is a prepainted galvanized steel developed to provide a durable material for exterior applications with good formability, good chemical resistance and corrosion resistance, suitable for highly aggressive (C4 &amp; C5) environment condition.</p> <p><b>TYPICAL USES</b></p> <p>Roofing and walling panels for building in Marine and Industrial environments.</p> <p><b>STANDARDS</b></p> <p>Substrate : ASTM A653/A653M Paint coating : ASTM A755/755M</p>	<p><b>PREFERRED SUBSTRATE</b></p> <p>Galvanized steel G90 (275gsm) Minimum CS Type A&amp;B, FS Type A&amp;B, SS33, SS40 &amp; SS50</p> <p><b>DIMENSIONS:</b> (For normal supply products )</p> <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;"><b>THICKNESS* (MM)</b></td> <td style="text-align: center;"><b>WIDTH** (MM)</b></td> </tr> <tr> <td style="text-align: center;">From 0.70 to 1.20</td> <td style="text-align: center;">From 50 to 1320</td> </tr> </table> <p><small>*For grade SS50, minimum thickness is 0.50 mm **For width less than 1000 mm are supplied with slit edge For specific dimensions please contact Sales and Marketing Dept.</small></p>	<b>THICKNESS* (MM)</b>	<b>WIDTH** (MM)</b>	From 0.70 to 1.20	From 50 to 1320
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<b>PRETREATMENT</b>	Corrosion resistance proprietary conversion coating.
<b>PRIMER COAT</b>	Custom formulated High Corrosion inhibitive Primer High Build thickness 30 microns.
<b>FINISH COAT</b>	Custom formulated system. High Build thickness-30 microns to 90 microns on the top or weather side. The finish coat is available on all RAL standard colours and other colours may be available on request.
<b>BACKING COAT</b>	Custom formulated Backer-5-7microns Special backer suitable for foam application can also be provided Back coat can be in the same top coat color and DFT as required
<b>GLOSS (60°)</b>	Nominal 20-30% (60°)

GUARANTEED PAINT PROPERTIES				
	TEST	TEST METHOD	DESCRIPTION	RESULTS
	Hardness (Pencil)	ASTM D 3363	Pencil	H or harder
	Adhesion -T bend	ASTM D 4145	T-bend	1T or less (No Pickoff)
	Flexibility	ASTM D 4145	T-bend	1T 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	20-30
	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
	Resistance to UV (QUV-A) ASTM G53	Exposure Hours		2000 Hrs
		ASTM D2244	Color Change	DE Hunterlab - Light color ≤3 Int.Color ≤5 Dark color ≤7
		ASTM D4214	Chalking	ASTM Rating 6
		ASTM D523	% Gloss Retention	≥ 50
	Natural well washed exposure ASTM G7	Exposure Years		15 Yrs ( C4 & C5)
		ASTM D2244	Color Change (Non Vertical)	DE Hunterlab - Light color ≤5 Int.Color ≤8 Dark color ≤12
		ASTM D4214	Chalking	ASTM Rating 6
		ASTM D523	% Gloss Retention	≥ 50
	Resistance to corrosion (Salt Spray) ASTM B117	Exposure Hours		2000 Hrs
		ASTM D714 & ASTM D1654	Blister Density, Size & Corrosion Creep	Blister density- Few, Blister size rating ≥8 Undercut from scribe ≤2mm
	Resistance to humidity at 38± 1°C ASTM D 2247	Exposure Hours		1000 Hrs
		ASTM D714	Blister Density & Size	Blister density- Few, Blister size rating ≥8
	Resistance to abrasion	ASTM D 968	Falling sand test	110 ltrs for 60 μm
		ASTM D 4060	Taber abraser 1000g CS10 wheels	≤30 mg per 1000 cycles
		ISO 1518	Scratch	≥3000gms
	Resistance to Heat (ECCA T13)	ASTM D2244	90°C - 700 hours or 60°C - 1000 Hours	ΔE ≤ 2.5 ΔGloss ≤ 5%
	Kesternich	ASTM G87	No. Of Cycles	10, 15 & 20 cycles for 60, 90 and 120 microns - No significant blistering. Edge lamination <2mm
	Chemical Resistance (Acid & Alkali)	AAMA 621	HCL, HNO3 & H2SO4	No discoloration/No blistering
	Resistance to solvents	ASTM D1308	Solvent	No discoloration/No blistering
	Resistance to fire	BS 476 Part 7	Fire rating	Class M0

## NOTE

- 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.
  - 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.
-  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.
  - Properties guaranteed on G90 or G115 Galvanized steel.

