

# DURA TECH™ xl (SMP) Silicone Modified Polyester Coatings Technical Data Sheet



Dura Tech™ xl is an SMP paint system that is made of a durable resin combined with cool pigment technology. This system provides excellent color retention, and resistance to chalk and fade, while reducing energy demands.

SPECIFICATIONS	TEST STANDARD	COATED STEEL SUBSTRATE <sup>1</sup>
Dry Film Thickness (Nominal)	ASTM D1005	0.15-.030 mil primer   0.70-0.90 mil topcoat
Gloss	ASTM D523 @ 60°	10-80+
Solar Reflectance	ASTM E903, ASTM E1918 (using portable reflectometer)	.25 (25%) min.
Emissivity	ASTM C1371, ASTM E408	.80 (80%) min.
Pencil Hardness	ASTM D3363	F Min.
Flexibility <sup>2</sup>	T-bend, ASTM D4145	2 T-bend, no pick-off
Adhesion	ASTM D3359	1.5x metal thickness, no adhesion loss
Reverse Impact	ASTM D2794	2x gauge or 80" lbs.
Abrasion, Falling Sand	ASTM D968	25-40 l/mil
Mortar Resistance	ASTM C267	No effect
Detergent Resistance	ASTM D2248 (3% detergent @ 100° F-72 hrs.)	No effect
Acid Resistance	ASTM D1308 10% muratic acid - 15 min.   20% sulfuric acid - 24 hrs.	No effect No effect
Acid Rain Test	Kesternich SO <sub>2</sub> DIN 50018	10 cycles No objectionable changes
Alkali Resistance	ASTM D1308 (10%, 20% NaOH, 1 hr.)	No effect
Salt Spray Resistance	ASTM B117 (5% salt fog @ 95° F)	Passes 1,000 hrs.
Humidity Resistance	ASTM D714, ASTM D2247 (100% relative humidity @ 95° F)	Passes 1,000 hrs. (No blisters, cracks or peeling)
Exterior Exposure	ASTM D2244, ASTM D4214 (10 yrs. @ 45° F, South Florida)	Max. 5 fade   Max. 8 chalk

## FINISH WARRANTIES

Dura Tech™ xl finishes are offered with a Limited Lifetime Residential Warranty and a 25 year Non-Residential Limited Warranty.

## COMPOSITION & APPLICATION

Dura Tech™ xl coatings are factory applied, oven cured formulas applied by approved coil coaters. They utilize Silicon Modified Polyester (SMP) resins and inorganic, IR reflective pigments for superior long-term performance.

## PRETREATMENT

All substrates are pre-treated in accordance with paint manufacturer's instructions. The pretreatment is to provide a suitable surface for application of the recommended primer.

## BATCH SENSITIVE PRODUCTS - PEARLESCENT METALLIC & PRINTS

For select finishes, minor differences in color and appearance are normal and to be expected, due to the use of variable color pigments or finish patterns. To minimize the possible visual effects from the minor variations in these products, an entire job should be sourced at one time. Additionally, fabricated panels, flat sheets, and flashings should be orientated in the same direction for installation. Contact your ASC Building Products representative for more information.

<sup>1</sup> Coated steel includes the following types of steel G90 hot dip galvanized, Galvalume®, and ZINCALUME®.

<sup>2</sup> Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability.



WE ARE NOT RESPONSIBLE FOR COLOR VARIATIONS.

Sample color chips are available upon request. Consult your ASC Building Products representative for more information.