



BEAM ULTRATECT DURON

Description

Ultratect "DURON" is the next generation of Ultratect technology. Based upon patented formulations and resin technology, Ultratect "DURON" is the fastest curing Ultratect yet, providing excellent corrosion and chemical resistance that lasts with the lowest environmental impact. Ultratect "DURON" Ultra low VOC Polyurethane Clear is a high gloss, 0.3 lbs/gal VOC* conforming, low HAPS, polyurethane clear coat. The resulting finish product provides a brush, roll or sprayable topcoat suitable for use in any environment.

Suggested uses

As a high performance, corrosion resistant, tough, industrial strength polyurethane clear coat over properly prepared, primed and top-coated aluminum, carbon steel, galvanized, concrete or dry wall where:

- The extra protection of a clear is desired
- Restoring gloss to "dull" faded finishes avoids the cost of complete re-painting
- Additional long term colour retention is desired
- Additional long term gloss retention is desired
- Low environmental footprint is desired
- Application by brush, roll or spray is desired
- Excellent chemical resistance
- Very good Skydol® resistance is needed
- Outstanding flexibility is needed
- Faster dry times are desired

Not recommended for: Immersion Service

Compatibility with Other Coatings:

- Aged Ultratect "DURON" may be re-coated with itself following washing with clean, fresh water – no mechanical surface preparation is required.
- Ultratect "DURON" can be applied over other Ultratect Coatings including, but not limited Ultratect "DURON", water-borne Polyurethane Copolymer coatings.
- Ultratect "DURON" may be used over most aged and hard-cured coatings in good condition. Testing for lifting, bubbling and adhesion is recommended to assure compatibility with unknown coatings.

Maximum Service Temperature:

250°F (93°C) in continuous service.

300°F (148°C) in intermittent heat.

Performance Properties:

Abrasion & Mechanical	Excellent	Colour & Gloss Retention	Excellent
Alkalis	Excellent	Acids	Excellent
Humidity	Excellent	Salts	Excellent
Solvents	Very Good	Weather	Excellent

VOC (Theoretical less water and exempt compounds)

This product contains TBAC.

	4 to 1 25% Reduction TBAC Exempt*			4 to 1 25% Reduction TBAC Non-Exempt		
	No Reduction	9M01™	9M02™	No Reduction	9M01™	9M02™
Without 1 oz VG_805™	0.3	--	--	2.3	--	--
With 1 oz VG_805™	--	0.4	1.0	--	2.4	2.9

*Where TBAC is considered an exempt solvent for contains requirement.

HAPS Information – Theoretical

Ultratect "DURON" – Mixed 4 to 1 no reduction – 0.01 lbs/gal solids

Ultratect "DURON" – Mixed 4 to 1 with 25% Imron® 9M01™ or 9M02™ Thinner and 1oz. VG-805™

Accelerator – 0.01 lbs/gal solids

Gloss	Weight Solids	Volume Solids
90 + 60° angle	57%	56%



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Theoretical Coverage Per Gallon

881 ft² (21.5 m²/l) @ 1 mill dft

441 ft² (10.8 m²/l) @ 2 mill dft

Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

Suggested Film Builds

3-5 mills (75-125 µm) wet

2-3 mills (50 – 75 µm) dry

Application by brush and roller may require additional coats to achieve recommended films thickness.

Weight per gallon – Average varies with colour

9.2lbs

ASTM Information:

Physical properties are average. Properties listed are for a system of Ultratect "DUCOR" and Ultratect "DURON"
Total DFT 9 mills.

Salt Fog (ASTM B-117)	500 hours	10 - No rusting
	1000 hours	10 – No rusting
	1500 hours	No rust, few #8 blisters at the scribe
Humidity Resistance (ASTM D2247)		10 – No undercutting
	500 hours	10 – No blisters
	1000 hours	10 – No blisters
	1500 hours	10 – No blisters
Adhesion (ASTM D3359-02 A/B)	5/5Excellent	
QUV A (ASTM D4587)	1500 hours	Gloss Before 91%
		Gloss after 89%
		% Retention 98%

	Rating		Rating
1% HCL (Hydrochloric Acid)	10	(Isopropyl Alcohol)	9
1% H ₂ SO ₄ (Sulphuric Acid)	10	(Ethylene Glycol Mono Butyl Ether)	9
10% H ₂ SO ₄ (Sulphuric Acid)	9	(Ethyl Acetate)	10
1% HNO ₃ (Nitric Acid)	3	(Toluene)	9
5% DMEA (N-Dimethylethanolamine)	9	Mek (Methyl Ethyl Ketone)	9
1% H ₃ PO ₄ (Phosphoric Acid)	10	28% (Ammonium Hydroxide)	9
10% H ₃ PO ₄ (Phosphoric Acid)	10	(Aromatic Mineral Spirits)	10
H-35 MEK (Methyl Ethyl Ketone)	9	(Aromatic Hydrocarbon)	9
1% NH ₄ OH (Ammonium Hydroxide)	10	10% NaOH (Sodium Hydroxide)	10
5% NH ₄ OH (Ammonium Hydroxide)	10	Motor Oil (Mobil 10W – 30)	10
10% NH ₄ OH (Ammonium Hydroxide)	10	Hydraulic Oil (Pennzoil)	10
1% NaOH (Sodium Hydroxide)	10	Cutting Oil (Rigid)	10
5% NaOH (Sodium Hydroxide)	10	Unleaded Gas	10
H-1 (Ethanol)	10	Skydol (500 B4L)	10
H-143 (Dibasic Esters)	9	Tide Soap 10%	10
DBE (Dibasic Esters)	9	Fantastic	10
(Aromatic Controlled VM&P Naphtha)	9	Bleach	10
(Aromatic Hydrocarbon)	9	Brake Fluid (DOT 3 Wagner Premium)	9
		Cola	10
Cleveland Condensing (ASTM D4585)	1000 hours	No rusting, no blistering, no de lamination	
Impact (ASTM D2794)	20 in pounds	with primer	
	80 in pounds	without primer	
Mandrel Bend (ASTM D522)	>28%	Passes	
Pencil Hardness (ASTM D3363)	H – 2H		
Perox Hardness (ANS/ISO 1522)	80 sec		

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