

Durex Acrotel DTM

Acrylic-Based Direct-to-Metal Coating

Description	Durex® Acrotel DTM Water-Based Metal Coating is a single-component, high-performance, versatile water-based acrylic metal coating. It is formulated to meet the conditions and properties required for high adhesion to metals, primarily steel and aluminum.
Uses	Durex® Acrotel DTM Water-Based Metal Coating is used for coating steel, aluminum and galvanized steel for exterior and interior applications.
Ideal For	<ul style="list-style-type: none"> · Metal and aluminum surfaces · Light to medium industrial protection · New and restoration construction applications over metal · Any metal surface that requires fast drying, easy-to-apply applications · Variety of porous construction surfaces requiring a hard-shell, durable coating
Advantages	<ul style="list-style-type: none"> · High-performance direct-to-metal (DTM) coating · Water based, safe and easy to handle · Very low odour and VOCs · Very good durability · Non-flammable · Good leveling, flow and microform-free properties · Outstanding adhesion to a variety of substrates · High-gloss latex · Excellent exterior properties · Excellent resistance to UV light

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
Resin Type	Acrylic copolymer
Coverage	4.9 m ² /L – 7.4 m ² /L (200-300 ft ² /gal) @ 2 – 3 mils DFT
Cure Time @ 23°C (75°F), 55% RH	To touch/recoat: 1 hour Light traffic: 24 hours Full cure: 7 days
pH Level	8.0-9.0
Reducer/Clean-up	Water

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	35 ± 5% (vol.)
Sheen (60°)	ASTM D3679	Gloss: 75-85% Semi-gloss: 40-50%
Viscosity (Brookfield) 23°C (75°F)	ASTM D2196	70-85 KU
V.O.C.	ASTM D3960	< 185g/L (< 1.54 lb/gal)
Cross Hatch Adhesion	ASTM D3359	5
Flexibility (Conical Mandrel) 4"	ASTM D522	Pass
Corrosion Resistance, Salt Spray 96 hours	ASTM B117	D#8, #6 at scribe, M#6, #4 on face, 5 mm undercut
Specific Gravity	ASTM D333	1.12 ± 0.1 g/L
QUV Weathering	ASTM G154 CYCLE 7	Before After
	QUV 313B-20/60°	1900 hrs. 39/74 9/47
	QUV 340A-20/60°	1900 hrs. 39/74 9/45

Packaging	Durex® Acrotel DTM Water-Based Metal Coating is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) pails. This product is available in multiple standard colours. Custom colour matching can also be attained at an additional cost. Please refer to the <i>Durex® Colour Selection Guide</i> for all available colour options.
Storage Conditions	Store Durex® Acrotel DTM Water-Based Metal Coating in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. Store liquid materials at ambient temperatures above 5 degrees C and below 35 degrees C. KEEP FROM FREEZING.
Surface Preparation	All surfaces to be coated must be free of dirt, oils, and any other contaminants that may prevent proper adhesion. Hard, glossy and non-porous surfaces should be mechanically abraded and wiped clean with a solvent before coating application to improve adhesion.
Application	Use a good quality synthetic brush, roller or airless spray equipment to apply an even coat of Durex® Acrotel DTM Water-Based Metal Coating. Maintain a wet edge to prevent overlap marks and gloss differences. Durex® Acrotel DTM Water-Based Metal Coating is recommended to be applied in 2 coats to ensure maximum coverage and protection. Apply to 2-3 mils DFT per coat. Note: Film formation of Durex® Acrotel DTM Water-Based Metal Coating depends on temperature and humidity. Minimum film formation temperature is 5 degrees C and maximum relative humidity is 60%. Lower temperature and higher humidity levels will result in longer curing time.
Clean-Up	Wash all tools and equipment immediately with warm water and mild detergent. Allow any unused product to harden in container and discard according to local regulations.
Limitations	Do not use Durex® Acrotel DTM Water-Based Metal Coating if temperature is less than 5 degrees C and relative humidity is greater than 60%. Similar to any waterborne coatings, Durex® Acrotel products are not recommended to be used in wet environments. Continuous pressurized water washing is not recommended.
Health and Safety	Durex® Acrotel DTM is non-toxic and non-flammable, however we recommend the use of rubber gloves when handling the product. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water and seek medical advice if irritation occurs. Harmful if swallowed, do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Please read our Material Safety Data Sheet for additional information.
Warranty	Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.
Technical Services	Technical support is available upon request at info@durabond.com . For the latest version of this data sheet, please visit our website at www.durabond.com , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd sales representative.

DURabond

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