

1. PRODUCT DESCRIPTION

Auto-Dex 500 systems are designed to provide technical and economic solutions for most vehicular decks. It is a cold liquid applied, elastomeric urethane traffic deck membrane and integral urethane skid resistant traffic topping. Finished film thickness of the systems will vary depending upon intended end use and environmental service conditions.

Auto-Dex 500 systems are designed for use under direct exposure to light to heavy vehicular traffic. It is an attractive, tough and durable system designed to protect the concrete deck surfaces from the deleterious effects of water and waterborne chloride penetration. The systems consist of a primer providing a continuous bond to the concrete substrate, an elastomeric urethane membrane and tough protective traffic urethane topping with encapsulated aggregate for skid resistance.

- Auto-Dex 500 systems provide effective economical solutions for most usage conditions.
- Auto-Dex 500 for light to medium vehicular traffic (parking stalls and low turn over facilities)
- Auto-Dex 500 for heavy vehicular traffic (drive lanes and ramps).

ADVANTAGES

1. Low Odor
2. Good Weatherability
3. Uniform Concrete Gray Color
4. Custom Colors Available (minimum order 300 gallons)

LIMITATIONS

- Cracks Must Be waterproofed prior to placement
- Moisture vapor emission rates (MVER) in excess of 3.0 lbs./1000 sq. ft./per 24 hour period per ASTM F1869, or an rh in excess of 78% per ASTM F2170 may result in delamination, discoloration or improper curing without proper treatment prior to installation of the flooring system. Consult with Crossfield Products Corp. for specific recommendations.
- Vapor control primers, sloping, smoothing or leveling compounds, crack repair or isolation, waterproof membranes or other supplementary items may be required for proper installation at an additional cost. Consult with Crossfield Products Corp. for specific recommendations.

RECOMMENDED THICKNESSES

The Guideline Chart lists recommended mil thicknesses, which vary depending upon end-use and environmental exposure conditions. Each structure should be treated uniquely. Thicknesses do not include increases from the Primer or skid resistant aggregate.

THICKNESSES	BASE MEMBRANE	TOPCOAT	TOTAL
INTERMEDIATE DECKS:			
Parking Stalls	25 mils	15 mils	40 mils
Drive Lanes and Ramps	25 mils	30 mils	55 mils
TOP DECKS			
Parking Stalls	25 mils	15-30 mils	40-55mils
Drive Lanes and Ramps	25 mils	30 mils	55 mils

Weathering Test: ASTM G23**, Atlas Twin Arc Weather-ometer Type DH 2,000 hours (equivalent to approximately six (6) years of natural weathering. Visual Examinations: No signs of chalking, crazing, cracking, blistering, delaminating, spalling, softening or any other deleterious effects. ASTM D751, Five (5) specimens weathered and five (5) specimens aged per AC39 Sec. IV A & B. Stretch rate 12 +/-0.5 in./min.

WITH AGGREGATE	TENSILE STRENGTH LB/IN	ELONGATION %
Control	21.3	89.0
Weathered	12.0	131.0
% Change Weathered	43.6	32.0
Aged	23.0	111.0
% Change Aged	7.3	15.2
WITHOUT AGGREGATE	TENSILE STRENGTH LB/IN	ELONGATION %
Control	41.8	169.0
Weathered	29.0	154.0
% Change Weathered	30.6	8.9
Aged	50.0	133.0
% Change Aged	16.4	21.3

Age Test: ASTM D412, Stretch rate 20 +/- 0.5 in./min. Procedure D&E, Six (6) cycles of each procedure. Material tested without aggregate. Visual Examinations after Aging Test: No signs of chalking, crazing, cracking, blistering, delaminating, spalling, softening or any other deleterious effects.

	ASTM D412 TENSILE STRENGTH PSI	ASTM D412 ELONGATION %
Control	2573	254
Weathered	3666	280
% Change Weather	+ 42.5	+ 10.2
Aged	3982	308
% Change Aged	+ 54.8	+ 21.5
ASTM C297 BOND STRENGTH PSI		
Primer	Metal	Concrete
Control	414	458
Aged	401	436
% Change	3.2	5.0
Mode of Failure	Cohesive Failure	Adhesion Failure of Concrete

- Percolation Test: ICC-ES Evaluation Svc. Inc., AC 39 Sect. IV-G Loss due to Percolation after the 1,000 cycles abrasion test (% of original head, max. allowed 1%): 0%
- Absorption Test: ASTM D570, 24 hour immersion in distilled water. Weight % of water absorption (max. allowed 5%): 1.86%
- Water Vapor Transmission (WVT) Test: ASTM E96 Desiccant Method: MVT: 0.000000249 gr/Pa-sec-m²; MVT: 4,350 grains/ft³-hr-in. Hg
- Abrasion Test: ASTM D1242* Method A as modified by ICC-ES Evaluation Svc., Inc. AC39 Sect. IV-F (1,000 cycles, 1,000 grams, No. 80 TP Aluminum Oxide Grit). Thickness lost (max. allowed 20 mils): 9mils.
- Concentrated Load Test: AC39, Sec. IV-L. One inch diameter steel plate with rounded corners.

Product Description Sheet

Elastomeric Vehicle Decking System

Load (lbs)	100	200	300
Deflection (in.)	0.020	0.028	0.037

- Impact Resistance: A two pound steel ball dropped eight feet onto the decking system. Test was performed three times with an average indentation of 0.027 in.
- Crack Resistance (Crack Bridging): Top coat showed signs of cracking while bottom coat maintained its integrity.
- Chemical Resistance Tests: ASTM D2299* Determine Relative Stain Resistance of Plastics by immersing specimens in 18 reagents @ 122°F (50°C) for 16 hours.
- Adhesion ASTM D4541..... > 400 psi (100% failure in concrete)..... (28.1 kg/cm)

REAGENT	NON-ABRADED	ABRADED
Ammonia Solution – 5%	1	1
Anti-Freeze	1	1
Chlorine Solution – 10%	1	1
Diesel Fuel	1	1
Gasoline – Regular	1	1
Heavy Duty Detergent	1	1
Hydraulic Fluids	1	1
Kerosene	1	1
Lubricating Oil	1	1
Muriatic Acid	2	2
Paint Thinner	1	1
Salt Solution – 10%	1	1
Soap Solution	1	1
Sulfuric Acid – 3%	1	1
Sulfuric Acid – Concentrate	3	3
Toluene	1	1
Transformer Oil	1	1
Turpentine	1	1

Number Code: 1. Unaffected 2. Superficially Affected
3. Considerably Affected

Note: a) Of the 18 reagents used in the chemical resistance test, only sulfuric acid concentrate caused a deterioration of the decking system. b) Wearing surface revealed no cracking, crazing, delamination, or any other deleterious effects. c) The test specimens which were coded “No. 2 or No. 3” could not be restored to their original surface condition by normal cleaning methods.

- Low Temperature Flexibility: AC39 Sec. K. 50°F (10°C). No cracking or crazing upon visual examination under 5x magnification in the bent condition.
- Fire Resistance Test Series Class “A”: U.B.C. Standard 32-7, ASTM E108, U.L. 790, N.F.P.A. No. 256, Spread of Flame Test (2 decks) on concrete surface.

SPREAD OF FLAME TEST (2 DECKS)		
	Base (in.)	Length (in.)
Deck 1	15	18
Deck 2	15	27
Max. Flame Spread Allowed	40	72

Auto-Dex 500 Vehicular Deck System will satisfactorily withstand the Flame Spread portion of the test for Class A Rating in UBC STD #32-7, ASTM E108, U.L. 790 and N.F.P.A. No. 256, when constructed, installed and tested as described herein.

Dex-O-Tex File Code L-180A 11/12

*ASTM D1242 Withdrawn 2004

*ASTM D2299 Withdrawn 1992

**ASTM G23 Replaced with ASTM G152-05 and G153-04

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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