SPECIFICATION COLORIZED COATINGS

- 1. **USE:** A durable, colorized, slip resistant and skid resistant coating suitable for delineating areas for preferential use, such as bike lanes, bus lanes and other vehicular or pedestrian traffic uses.
 - 1.1. Material must be specifically designed for application onto asphalt or non-bituminous concrete surfaces such as portland cement concrete. Material must have a balance of properties that will ensure adhesion and movement on a flexible pavement, while providing excellent durability and color stability. Key properties include wear and crack resistance, color retention, adhesion, minimal water absorption and increased friction properties.
 - 1.2. A Certificate of Analysis from an independent recognized testing laboratory confirming performance as outlined in section 1.1 shall be made available upon request.
 - 1.3. A variety of colors shall be available including blue, green, red and purple with custom colors available upon request.
- 2. **MATERIAL:** Must be composed of a two component, epoxy-modified, acrylic, waterborne coating specifically designed for application onto asphalt or non-bituminous concrete surfaces such as portland cement concrete, and is specially formulated to provide a safe, durable, long lasting color and texture to the pavement surface.
 - 2.1. Typical Physical Properties of coating material:

Table 1: Typical Physical Properties of coating			
Characteristic	Test Specification	Specification Coating	
solids by volume	ASTM D 2697 55%		
solids by weight	ASTM D 2369	68.90%	
Density	ASTM D 1475	13.34 lbs/gal (1.599 kg/l)	

- 2.2. Material must be environmentally safe and meet EPA requirements for Volatile Organic Compounds (VOC).
- 3. **APPLICATION:** The material shall be applied to the pavement surface using the method outlined in the product Application Instructions.
 - 3.1. The pavement surface shall be dry and free from all foreign matter.
 - 3.2. Additional layer of material may be used to provide additional thickness in high wear areas such as wheel paths and vehicle turning areas.

	THICKNESS (approx.)			
SPRAY	Wet		Dry	
PASSES	Mm	mil	mm	mil
3	0.65	25.7	0.36	14.1
4	0.87	34.3	0.48	18.9

- 3.3. Each coating application shall be spray applied using the Rapid Sprayer II and broomed to work the material into the surface. Subsequent layers shall be sprayed and rolled, using a 1in. to 1.5 in. nap roller or sprayed and broomed.
- 3.4. Each additional layer of coating material shall be the same color as the first and shall be allowed to dry completely before applying the next layer.

Ride-A-Way™

3.5. One container of coating will yield one layer covering approximately 700 square feet. See table below.

Laye	ers	Approximate coverage per unit	Approximate coverage per layer	Recommendation	
3	3	225 ft2 (20.9 m2)	675 ft2 (62.7 m2)	coating not subjected to vehicular traffic	
4	ł	175 ft2 (16.3 m2)	700 ft2 (65.1 m2)	coating subjected to vehicular traffic	

3.6. Coating must be 100% dry before opening to traffic. Air temperature, relative humidity and time will affect dry time. Substrate temperature and ambient wind conditions can also affect dry times. Reference the table below for typical dry times.

COATING DRY TIMES (TYPICAL)			
Air Temperature	Relative Humidity Time to dry (approx.)		
60°F (15°C)	80%	8 hours	
81°F (27°C)	57%	4 hours	
120°F (49°C)	5%	2 hours	

4. **PERFORMANCE PROPERTIES OF COATING**

Characteristic	Test Specification	Coating		
	ASTM D 5895			
Dry Time (to recoat)	23°C; 37% RH	35 n	nin	
Taber Wear Abrasion	ASTM D 4060			
Dry H-10 wheel	1 day cure	0.98 g/100	00 cycles	
Taber Wear Abrasion	ASTM D 4060			
Wet H-10 wheel	7 days cure	3.4 g/100	0 cycles	
Accelerated Weathering	ASTM G 155			
Environment	2,000 hrs (CIE Units)	ΔE=0.49 (b	rick color)	
Hydrophobicity				
Water Absorption	ASTM D 570	8.3% (9 days	8.3% (9 days immersion)	
Shore Hardness	ASTM D 2240	63 Ty	63 Type D	
Mandrel Bend	ASTM D 522-93A	1/4 in @	1/4 in @ 21° C	
Permeance	ASTM D 1653	$3.45 \text{ g/m}^2/\text{h}^2$	3.45 g/m ² /hr (52 mils)	
	EPA-24	B,, ,	(=	
VOC	ASTM D 3960-05	18.7 g/l		
			0	
Adhesion to Asphalt	ASTM D 4541	Substrate	Substrate Failure	
		WP* coated	64	
		WP* uncoated	57	
	ASTM E 303	AC** coated	73	
Friction Wet	British Pendulum Tester	AC** uncoated	60	

*WP - test conducted on asphalt pavement in wheel path.

**AC - test conducted on asphalt pavement adjacent to curb.

5. **TECHNICAL SERVICES:** The successful bidder shall provide technical services as required.