**Material Selection for Pavement Marking and Expected Marking Life in Years**

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| **a. Long Line Pavement Marking − 2 Lane or General System****(See next page for related notes.)** |
| **Remaining Pavement** **Surface** **Life \*** | **Asphalt** | **Concrete** |
| ADT < 5,000**Type Years** | ADT > 5,000**Type Years** | ADT < 5,000 **Type Years** | ADT > 5,000 **Type Years** |
| **0 - 2 years** | Traffic Paint Type 1  | 1 | Polyester Spray Thermo Traffic Paint Type 1 | 221 | Polyester Traffic Paint Type 1 | 21 | Polyester Traffic Paint Type 1 | 21 |
| **3 - 4 years** | Polyester Spray Thermo Traffic Paint Type 1 | 321 | Polyester Spray Thermo Traffic Paint Type 1 | 221 | Traffic Paint Type 1 | 1 | EpoxyTraffic Paint Type 1 | 41 |
| **> 4 years** | ThermoPolyesterSpray Thermo  | 432 | Epoxy ThermoPolyester Spray Thermo  | 4422 | Epoxy Traffic Paint Type 1 | 41 | Epoxy  | 4  |
| **New Surface**i) 35o to 50o Fii) > 50o F | Traffic Paint Type 1 ATraffic Paint Type 1 Spray ThermoThermo  | 1124 | Traffic Paint Type 1 ATraffic Paint Type 1 Spray ThermoThermo | 1124 | Traffic Paint Type 1 ATraffic Paint Type 1 Epoxy  | 114 | Traffic Paint Type 1 ATraffic Paint Type 1 Epoxy  | 114 |

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| **b. Long Line Pavement Marking − Multilane or Priority System****(See next page for related notes.)** |
| **Remaining Pavement** **Surface** **Life \*** | **Asphalt** | **Concrete** |
| ADT < 5,000**Type Years** | ADT > 5,000**Type Years** | ADT < 5,000**Type Years** | ADT > 5,000 **Type Years** |
| **0 - 2 years** | Polyester Traffic Paint Type 1 | 21 | PolyesterSpray ThermoTraffic Paint Type 1 | 221 | PolyesterTraffic Paint Type 1 | 21 | Polyester Traffic Paint Type 1 | 21 |
| **3 - 4 years** | Polyester Spray Thermo Traffic Paint Type 1 | 321 | Polyester Spray Thermo Traffic Paint Type 1 | 221 | Polyester Traffic Paint Type 1 | 21 | Epoxy | 4 |
| **> 4 years** | Thermo Polyester Spray Thermo Traffic Paint Type 1 | 4321 | Epoxy Thermo Spray ThermoPolyester  | 4422 | Epoxy  | 4 | Epoxy  | 4 |
| **New Surface**i) 35o to 50o Fii) > 50o F | Traffic Paint Type 1 ATraffic Paint Type 1 Spray ThermoThermo  | 1124 | Traffic Paint Type 1 ATraffic Paint Type 1 Spray ThermoThermo | 1124 | Traffic Paint Type 1 ATraffic Paint Type 1 Epoxy  | 114 | Traffic Paint Type 1 ATraffic Paint Type 1 Epoxy  | 114 |

**Material Selection for Pavement Marking and Expected Marking Life in Years (continued)**

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| **c. Auxiliary Pavement Marking − 2-Lane and Multilane or Priority System** |
| **Remaining Pavement** **Surface** **Life \*** | **Asphalt** | **Concrete** |
| ADT < 5,000 **Type Years** | ADT > 5,000 **Type Years** | ADT < 5,000 **Type Years** | ADT > 5,000 **Type Years** |
| **0 - 2 years** | Traffic Paint Type 1 | 1 | Traffic Paint Type 1 | 1 | Traffic Paint Type 1 ATraffic Paint Type 1 | 11 | Heat-Fused Preformed ThermoTraffic Paint Type 1 ATraffic Paint Type 1 | 311 |
| **3 - 4 years** | Heat-Fused Preformed ThermoPolyester  |  41-2 | Heat-Fused Preformed Thermo  | 3 | Heat-Fused Preformed ThermoEpoxyTraffic Paint Type 1 | 431 | Heat Fused Preformed Thermo Epoxy | 33 |
| **> 4 years** | Heat-Fused Preformed ThermoThermoplastic Polyester Traffic Paint Type 1 | 4 31-21 | Heat-Fused Preformed ThermoThermoplastic | 33 | Heat-Fused Preformed ThermoEpoxy | 43 | Heat-Fused PreformedThermoEpoxy | 33 |
| **New Surface**i) 35o to 50o Fii) > 50o F | Same as used for long lines |  | Same as used for long lines |  | Same as used for long lines |  | Same as used for long lines |  |

\* Remaining pavement surface life is the life before resurfacing, reconstruction or before crack sealant will cover the pavement markings.

**Notes:**

1. **Polyester pavement marking material**
	1. Polyester pavement marking material is addressed in **CMS Item 643**. Since it adheres best to a worn surface, polyester is not to be placed until new asphalt pavement has been open to traffic at least fourteen days.
	2. Polyester pavement marking material shall only be used on **C&MS Item 441, 442, or 424 Type B.**
	3. Polyester pavement marking material shall not be used on the following asphalt concrete surfaces due to poor bonding qualities:
		1. Open graded courses,
		2. Slurry seal, **C&MS Item 424 Type A or 443**
		3. Any Asphalt Concrete (Item Special) should be questioned before considering placement of polyester material on it.
2. **Thermoplastic pavement marking material**
	1. Thermoplastic pavement marking material is not recommended for striping long line markings on routes with 2500 or less ADT since these materials must be removed before a chip seal coat can be applied to the pavement.
3. **Preformed Thermoplastic pavement marking material**
	1. Due to the high cost of preformed material, it should only be considered for use where extra-long life is needed or in certain applications, such as bridge decks where thermoplastic has not adhered well.
4. **Epoxy pavement marking material**
	1. Epoxy should only be used on pavements in good condition after surface preparation has been accomplished per manufacturer recommendations.
	2. Epoxy pavement marking material is not recommended for striping long line markings on routes with 2500 or less ADT since these materials must be removed before a chip seal coat can be applied to the pavement.
5. **Rumble Stripes**
	1. Due to installation and durability issues Preformed pavement marking (C&MS Item 645), and Heat-fused preformed thermoplastic (C&MS Item 647) shall not be used for rumble stripes.
6. **Microsurfacing and Chip Seal Pavements**
	1. Microsurfacing **(Item 421)** and Chip Seal **(Item 422)** falls under Asphalt Pavement.
	2. Thermoplastic **(Item 644)** pavement marking materials shall not be used on Microsurfacing pavements **(Item 421)** for long line pavement markings.
7. **Miscellaneous**
	1. Auxiliary markings not regularly run over by traffic will last 1.5 to 2 times longer.
	2. Surface preparation may be required to remove old markings as recommended by supplier.
	3. Remove curing compound completely from new concrete surfaces - follow **CMS Item 641.05**.

**Material Selection for Pavement Marking and Expected Marking Life in Years (continued)**

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| **d. Concrete Bridge Deck Pavement Marking**  |
| **Remaining Surface Life** | **Type** | **Years** |
| **< 4 years** | Traffic Paint Type 1 ATraffic Paint Type 1EpoxyPreformed Tape | 11-23-44-5 |
| **≥ 4 years** | EpoxyPreformed Tape | 3-44-5 |