

EXPECTED IMPLEMENTATION JULY 2021

971 PAVEMENT MARKING MATERIALS (REV 10-5-20) (FA 12-14-20) (7-21)

SUBARTICLE 971-2.2 is deleted and the following substituted:

971-2.2 Specific Properties: The large (Type 3 or larger) glass spheres used for drop on beads shall have an adhesion coating. Type 1 glass spheres used for drop on beads shall have a dual coating. Beads used in the intermix of materials are not required to be coated.

The following physical requirements apply:

| Table 971-3 | | |
|--------------------|-----------------------------|---------------------|
| Property | Test Method | Specification |
| Roundness* | AASHTO R 98 | Min: 70 % by weight |
| Roundness** | AASHTO R 98 | Min: 80% by weight |
| Refractive Index* | Becke Line Method (25+/-5C) | 1.5 minimum |
| Refractive Index** | Becke Line Method (25+/-5C) | 1.9 minimum |

*Type 1, 3, 4 and 5 beads
**High Index beads

| Table 971-4 | | | | | |
|-------------|--|-------------------|-------------------|-------------------|------------|
| Sieve Size | Percent by Mass Passing Designated Sieve (AASHTO R 98) | | | | |
| | Grading Designation | | | | |
| | Type 1 (AASHTO) | Type 3 (FP 96) | Type 4 (FP 96) | Type 5 (FP 96) | High Index |
| No. 8 | | | | 100 | |
| No. 10 | | | 100 | 95 - 100 | |
| No. 12 | | 100 | 95 - 100 | 80 - 95 | |
| No. 14 | | 95 - 100 | 80 - 95 | 10 - 40 | |
| No. 16 | 100 | 80 - 95 | 10 - 40 | 0 - 5 | 100 |
| No. 18 | | 10 - 40 | 0 - 5 | 0 - 2 | |
| No. 20 | 95 - 100 | 0 - 5 | 0 - 2 | | 95 - 100 |
| No. 25 | | 0 - 2 | | | |
| No. 30 | 75 - 95 | | | | 55 - 85 |
| No. 40 | | | | | 15 - 45 |
| No. 50 | 15 - 35 | | | | 0 - 5 |
| No. 80 | | | | | |
| No. 100 | 0 - 5 | | | | |

SUBARTICLE 971-3.3 is deleted and the following substituted:

971-3.3 Physical Requirements: Test laboratory samples in accordance with ASTM E811 and E1349 and also meet the following criteria:

EXPECTED IMPLEMENTATION JULY 2021

D

| Table 971-6 | | | |
|---------------------------|--------------------|-------------------|---------|
| Property | Test Method | Minimum | Maximum |
| Density | ASTM D1475 | 13.5 ± 1.4 lb/gal | - |
| Viscosity at 77°F | ASTM D562 | 80 KU | 100 KU |
| Fineness of Grind | ASTM D1210 | 3(HS) | |
| Dry Opacity at 5 mils WFT | ASTM D2805 | 0.92 | - |
| Bleed Ratio | ASTM D868 | 0.95 | - |
| Flexibility | ASTM D522 Method B | Pass | - |
| Abrasion Resistance | ASTM D4060 | Pass | - |

R

SUBARTICLE 971-4.3 is deleted and the following substituted:

971-4.3 Physical Requirements: Test laboratory samples in accordance with ASTM E811 and E1349. Samples shall meet the following criteria:

A

| Table 971-8 | | | |
|---------------------------|--------------------|-------------------|---------|
| Property | Test Method | Minimum | Maximum |
| Density | ASTM D1475 | 13.5 ± 1.4 lb/gal | N/A |
| Viscosity at 77°F | ASTM D562 | 80 KU | 100 KU |
| Fineness of Grind | ASTM D1210 | 3(HS) | |
| Dry Opacity at 5 mils WFT | ASTM D2805 | 0.92 | - |
| Bleed Ratio | ASTM D868 | 0.95 | - |
| Flexibility | ASTM D522 Method B | Pass | - |
| Abrasion Resistance | ASTM D4060 | Pass | - |

F

T