

Onyx Frictional Mastic Surface Treatment

Engineered for high speed pavement maintenance

Quick and tough, Onyx frictional mastic surface treatment combines the durability you want from a pavement maintenance application with the frictional characteristics achieved from improving micro texture on the pavement surface. Onyx is a mixture of asphalt emulsion, increased levels of angular fine aggregates, polymers and catalysts. Onyx is designed to protect your investment, minimize future maintenance treatments and get traffic back on your pavement more quickly.

Friction

Onyx has been designed with an increased level of high quality fine aggregate material. The design procedure relies on industry standard testing and allows you to feel comfortable with the frictional characteristics of Onyx. This allows Onyx to be used on roads, including arterials and collectors, up to 55 mph.

Speed to Open

Onyx has been engineered to develop early strength with shortened, predictable dry times. Using Onyx minimizes the often unseen cost of downtime with faster application and return to traffic, even at night.

Engineered Toughness

Onyx is a ready-to-use product that does not need dilution. Onyx has significantly higher loadings of unique polymers and catalysts that deliver the long-term performance you demand. Although containing higher aggregate loadings, Onyx consistently achieves results superior to the competition in the Wet Track Abrasion Test.

Permeability & Color

Onyx is formulated to maximize your asphalt's durability through permeability, friction and color. When cured, Onyx creates an impermeable film over your pavement surface that prevents further damage from water. Onyx also holds the dark black color longer than other surface treatments. The result is a job that looks new years into the life of the treatment.

| | Test Method | Min | Max | Results | |
|--|--|-------------|----------|---------|----------|
| Onyx Emulsified Asphalt | Viscosity, Saybolt Furol at 77F, seconds | ASTM D244 | 15 | 100 | 42 |
| | Particle Charge | ASTM D244 | Positive | | Positive |
| | Sieve % | AASHTO T-59 | 0 | 0.1 | 0.06 |
| | Residue by Distillation, percent | AASHTO T-59 | 57 | -- | 62 |
| | Penetration at 77F, 100g, 5 seconds | AASHTO T-49 | 15 | 150 | 54 |
| Onyx Asphalt Mastic Mix Design | Wet Track Abrasion Loss (3 day soak), g/m ² | ASTM D3910 | -- | 80 | Pass |
| | Asphalt content by Ignition Method, percent | AASHTO T308 | 30 | -- | Pass |
| | Dynamic Friction Test Number @ 20 kph (ratio) | AASHTO T-59 | .90 | -- | Pass |
| Onyx Asphalt Mastic Manufacture | Solids content by evaporation, percent | AASHTO T-59 | 48 | -- | Pass |
| | Asphalt content by Ignition Method, percent | AASHTO T308 | 30 | -- | Pass |
| | Rotational Viscosity @ 20 rpm / RV spindle, cPs | ASTM D2196 | 800 | 4000 | Pass |

