Axys® Mastic Surface Treatment

Maximizing the longevity performance of your pavement

ingevity

Opening the road to innovation

Why Axys®?
Quick and tough, Axys mastic surface treatment combines the durability you want from a pavement maintenance application with the environmental sensitivity your stakeholders value.

Axys is a mixture of asphalt emulsion, fine aggregate, polymers and catalysts. Utilizing two formulas, **Axys – C1 M3** is designed for rapid dry times and **Axys – C2** is formulated for hot weather conditions. Axys protects your investment, minimizes future maintenance treatments and gets traffic back on your pavement, or parking area, more quickly.

Speed to Open
Axys mastic surface treatment has been engineered to develop early strength with shortened, predictable dry times. Using Axys minimizes the often unseen cost of downtime with faster application and return to traffic.

Clean Technology
Axys is an asphalt technology that is safer for the environment and does not contain coal tar.

Color
Axys is consistently black and formulated to reduce ultraviolet damage to the pavement.

Engineered Toughness
Axys is a central plant manufactured technology that is formulated to maximize your asphalt's durability through permeability and color. This manufacturing method allows for increased quality assurance and application without dilution. Axys consistently performs better than competitive products in the Wet Track Abrasion Test.

Axys has significantly higher loadings of unique polymers and catalysts that deliver the long-term performance you demand.

Axys® backed by science, proven in the field

Project Facts

Road Owner
Amberwood Subdivision, Prosper, TX

Scope of Project
1.6 miles, 22 ft. wide
residential pavement

Material
Axys® Mastic Surface Treatment

Equipment Used
1 – Hand wand applicator
1 – 6,000 Gallon Portable Storage Tank

Top Photo: Axys during application Bottom Photos: Amberwood surfaces showing Axys longevity after one year

Case study profile

Amberwood Farms Subdivision in Prosper, Texas

This job needed to be accomplished with minimal disruption to the neighborhood's residents and access to their homes, so a fast return to traffic was essential for this Axys® mastic surface treatment application. The fast dry time of Axys made it a good choice for this reason.

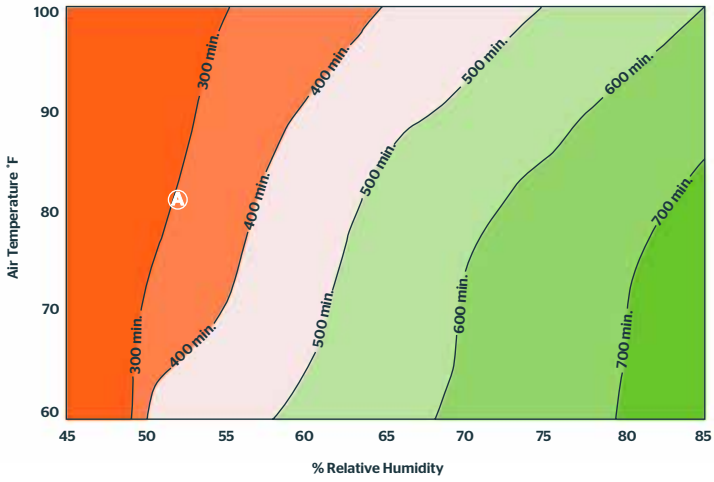
Amberwood Farms Home Owners Association President, George Dupont is pleased with the results, "After two blistering Texas summers and a week of ice storms the Axys sealant still looks like the day it was applied. Quick application, dries in hours, seals the surface imperfections, and looks great! Our plan is to have the streets re-coated every 4-5 years to extend their usable life. We highly recommend the product."

Axys®

Drying Characteristics of Axys®
The charts below indicate estimated drying times given the illustrated environmental conditions. The equation illustrates how dry times change along with conditions.

Axys® – C1 M3: a rapid drying mastic surface treatment intended for use on your asphalt surface or parking area.

Dry Time Axys – C1 M3 vs. Air Temperature˚F & % Relative Humidity



Dry Time Correction Factors

Wind MPH	Wind Factor in Drying Time
1	100%
5	30%
10	20%
15	15%
20	10%

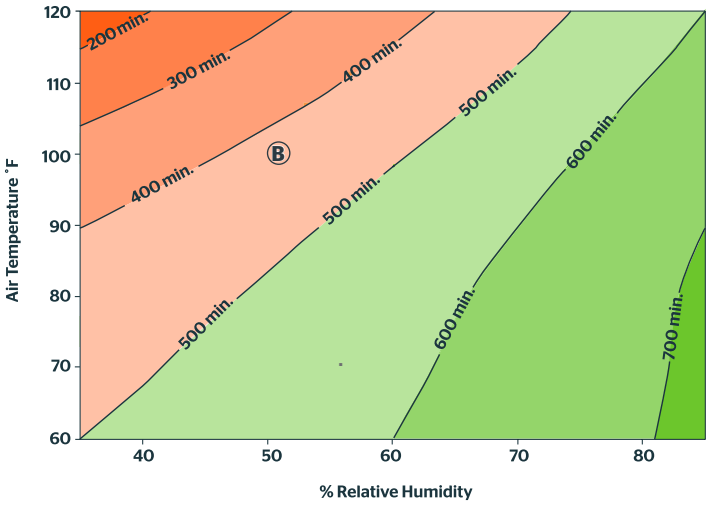
Pavement ˚F above Air Temp ˚F	Pavement ˚F Drying Factor
0˚ F	100%
10˚ F	75%
20˚ F	50%
30˚ F	25%

Chart times should be adjusted for steady wind (mph) and pavement temperature conditions.

Ⓐ example @ 80˚F, 50% RH with 5 mph wind and 100˚F pavement, then Dry Time Estimate = 300 x 30% x 50% = 45 minutes

Axys® – C2: a mastic surface treatment formulated to excel during hot weather application.

Dry Time Axys – C2 vs. Air Temperature˚F & % Relative Humidity



Dry Time Correction Factors

Wind MPH	Wind Factor in Drying Time
1	100%
5	25%
10	15%
15	10%
20	5%

Pavement ˚ F above Air Temp ˚F	Pavement ˚F Drying Factor
0˚ F	100%
10˚ F	75%
20˚ F	50%
30˚ F	25%

Chart times should be adjusted for steady wind (mph) and pavement temperature conditions.

Ⓑ example @ 100˚F, 50% RH with 5 mph wind and 120˚F pavement, then Dry Time Estimate = 400 x 30% x 50% = 60 minutes

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