

CARBONSEAL™

ASPHALT PAVEMENT SURFACING MATERIAL



CARBONSEAL™ AN INNOVATIVE ASPHALT SEALER FOR COMMERCIAL & RESIDENTIAL APPLICATIONS.

The asphalt binder system used in CARBONSEAL™ has undergone over 18 years of repetitive lab testing and field evaluations within the end-product field of use.



CARBONSEAL™ COMPONENT TECHNOLOGY

- Spray or squeegee applied
- Rapid curing
- Skid resistance
- Unmatched wear-ability
- No scuffing
- Unequaled deep black color

Carbonsel Asphalt Sealer manufactured by Phoenix Asphalt Maintenance of Portland, Oregon. When properly applied and cured, the material forms a waterproof, tough, ductile, and skid resistance wearing surface. Carbonsel prevents surface deterioration by providing resistance to the harmful effects of UV exposure as well as preventing water damage by sealing off the "hair-line" cracks usually associated with early pavement failure.



CARBONSEAL™ SPECIFICATIONS

- **BULK DENSITY** 10-11lbs/gal
- **SOLIDS** 55-60%
- **RESIDUE ON BASE** 65%
- **PEN OF RESIDUE** <25%
- **ISSA-WTA** <5% loss

SURFACE PREPARATION: All areas to be sealcoated need to be free from sand, dirt, dust, oil build-up, grease and other foreign debris.

APPLICATION: Application of the seal coat material can be done by either hand squeegee application, equipment capable of squeegee style application or spraying of the sealcoat. Depending on surface texture and traffic load, application can be in one or two separate coats with complete drying of the first coat prior to the application of the second coat.

CURING: All traffic should be kept off the surface until thoroughly cured and pickup or tracking does not occur. Care should be taken to assure that any sprinkler systems are turned off for at least a 24 hour period during the application process.



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CARBONSEAL™

PHYSICAL PROPERTY	TEST METHOD	RESULTS
Long Term Weathering >150 months	Controlled Test Field(s)	No cracking, crazing or shrinking fissures. Retains black hue.
Accelerated 10,000 hour QUV	ASTM E 96	Passes. Retains black hue.
Aged color retention. Beckman 5240 spectrophotometer	ASTM E 903	Exhibits less than 3% spectral reflectance at 60 months
Wet track abrasion	ISSA a-105 (TB 100) ASTM 3910	<5 grams loss 6 day soak.
Ductility/Flexibility	ISSA TB 146	Passes @ 32° F
Skid Resistance/Polish Susceptibility	CALTRANS SRL Standard	Passes 35 MPH
Aggregate to asphalt	ISSA TB Boiling test	Passes @ >95% adhesion
Slurry solids content	ASTM D244	58% Maximum
Properties of Bitutene™		
Engineered Thermoplastic		
Test on residue		
Softening point	AASHTO T-53	60° C Minimum
Penetration @ 77°	AASHTO T-49	25 Maximum
Residue (% by mass)	California T-331	65% Minimum
Phase angle @ 64C (DSR)	AASHTO TP-5	78 Maximum

Beginning in 1991, The asphalt binder system developed and utilized by a leading aerospace corporation, now used by Phoenix Asphalt, has undergone over 18 years of continuous, repetitive laboratory and field evaluations within the end product field of use. The above tests and results have been proven using a properly manufactured "thermoplastic resin" sealcoat product: Carbonsseal™.

For more information and to download MSDS sheets visit:

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