



ARMOR SEAL A-100 HD

Armor Seal A-100 Heavy Duty is Cascade Asphalt's premier asphalt sealer. A-100 HD is a high performance mineral reinforced asphalt emulsion sealer blended with polymers and special surfactants for superior adhesion, flexibility, and durability.

A-100 HD advantages:

- Highly Durable- Polymerized sealer provides tough surface for fewer power steering marks.
- Rubberized for added flexibility, adhesion and resistance to wear.
- Designed for heavy aggregate loading
- No other additives needed
- Dries fast

Polymer Modification Makes The Difference! A-100 HD incorporates the use of proven polymer technology. Elastomeric polymers are hot blended directly into A-100 HD during the manufacturing process to produce a coating with added toughness, flexibility, adhesion, and weather resistance.

Fiber Reinforcement- Specialty fibers are added to provide flexural strength and bridging characteristics to A-100 HD. Fiber reinforcement provides a more durable surface coating. A-100 HD is formulated specifically to protect and enhance asphalt pavement surfaces including commercial and residential parking areas.

	Method	Result
Cone Penetration@77F, dmm	ASTM D5329	364
WTAT, loss g/m (g/ft)	ISSA TB100	(4.7)
% Residue	ASTM D2939#8	60.52
%Volatiles	ASTM D2939#9	39.48
%Solubility in TCE of residue	ASTM D2939#21	25.22
Resistance to heat	ASTM D2939#14	Pass
Resistance to water	ASTM D2939#15	Pass
Flexibility	ASTM D2939 #16	Pass
Resistance to impact	ASTM D2939#26	Pass



PREPARATION

Immediately prior to sealing, all asphalt surfaces must be thoroughly cleaned and contain no loose material, dirt, dust, and/or deicing chemical residue, etc. Surfaces that are impacted with hard clay, dust, and silt, that cannot be removed by mechanical sweepers or blowers must be pressure washed. If dirty surfaces are not properly cleaned, the sealer cannot bond or grip to the surface and de-bonding of the coating will occur. Sources of water run off such as landscape irrigation should be shut off, and the asphalt surface must be completely dry prior to application. New asphalt surfaces must cure a minimum of thirty days before application. Prior to final clean up and seal coat application, all asphalt patching, paving, crack filling, or other repair and construction work must be completed. Potholes, severely cracked areas, and similar surface defects must be repaired as needed with a suitable hot mix asphalt. Treat all grease, oil, gasoline, and similar petroleum build-up or stains with Prep Seal oil spot primer A-500. Cracks in excess of ¼" wide shall be cleaned and filled with Dura-Fill H.S. (Heat Stabilized) hot applied crack filler A-420 or approved equal.

MIXING:

Concentrated Armor A-100 HD can be mixed with up to three pounds of #30 to #80 gradation silica sand per gallon. During application, A-100 HD and silica sand (if added), must be kept agitated and in a constant state of uniform suspension. Sand can be added to one or both coats. Prior to application, concentrated Armor A-100 HD may be mixed with water from 15 to 20 percent depending upon surface conditions.

APPLICATION:

Concentrated Armor Seal and specified water dilution should be applied in parallel ribbons with a squeegee or approved spray application equipment. One or multiple coat application is acceptable method. Where possible, the first coat of sealer should be allowed to dry for 12 hours prior to the application of a second coat. Multiple coats should be applied in cross directions. It is recommended that Armor Seal A-100 HD be allowed to cure for 24 hours before opening to traffic. New (less than 60 days old) or heavily oxidized surfaces, should be prime coated with CSS1h, or A-100 HD, diluted 100 percent (1 to 1) with water prior to the application of the first coat of sealer.

COVERAGE:

Coverage (or yield) will range from 20 to 40 square feet per gallon, depending on surface conditions. An example of recommended specifications would be:

- Light Traffic 40-50 s/f per gallon
- Moderate Traffic 35-40 s/f per gallon
- Heavy Traffic 20-30 s/f per gallon

CLEAN UP:

Clean up tools and equipment with water. Use diesel fuel if material has hardened

CAUTION:

Stir and mix thoroughly before using. Do not apply when temperature is below 60° F. Do not apply if rain is expected within 24 hours of application. Keep from freezing. Close containers when not in use. Do not store containerized sealer in direct sunlight or above 100° F. Do not expose containerized sealer to open flame.

NOTICE:

The methods and techniques described in this application bulletin represent some that have been used successfully to obtain the desired results. All variations in asphalt, climate conditions and equipment cannot be anticipated by Cascade Asphalt Sealing Co. The decision to use any of these methods and techniques is entirely at the election and responsibility of the user.

WARRANTY AND DISCLAIMER

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