

**≡ SKIDABRADER ≡**

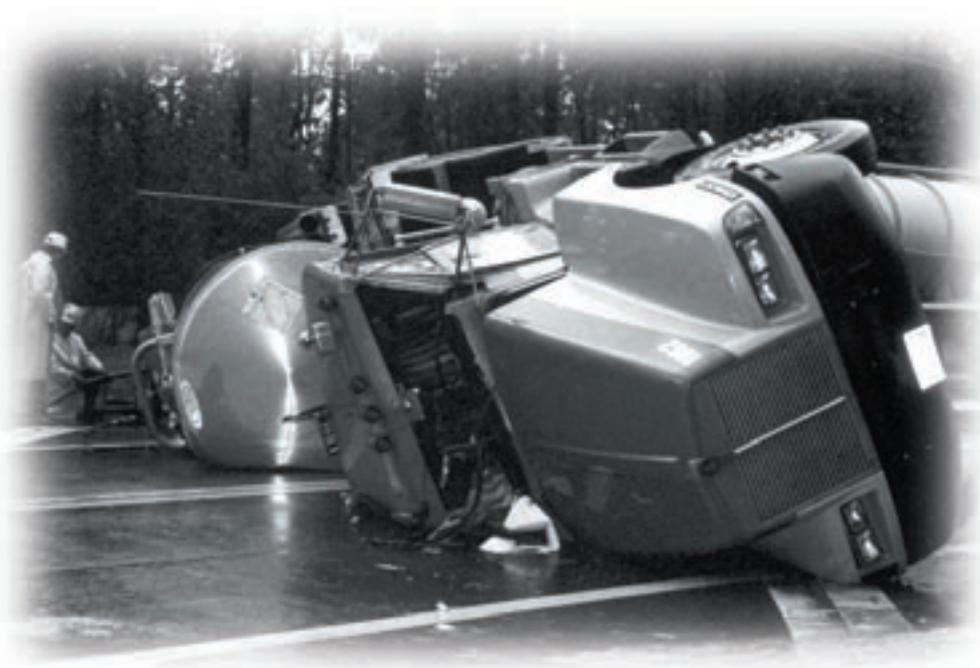
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# **SURFACE ABRADING**

**FOR SKID RESISTANCE**



# OLD PROBLEM, EASY SOLUTION



**R**ain slick pavement compromises safety. A proven method to increase texture on existing pavement surfaces can restore wet weather skid resistance economically and with comparatively minor traffic interference.

## SKIDABRADING PAVEMENT



**T**he SKIDABRADER is designed to texture pavement surfaces. It recycles steel abrasive media utilizing the high velocity impact method to produce a six-foot wide swath of textured surface in a single pass. It is the most productive machine of its type, providing the fastest, simplest, and cleanest way to modify pavement surfaces. The texture depth can be infinitely controlled on asphalt, concrete, and other surfaces. It is a completely dry and dust-free process that requires no cleanup.

# ABRADING ETCHES THE SURFACE



**A**brading etches the surface, leaving a texture that is extremely receptive to vehicular tire adhesion. The coefficient of friction is distributed equally, both longitudinally and transversely. Surface drainage is excellent and the residual moisture dries usually in minutes after a rain. The ride is quiet, and groove steering of small vehicles is virtually nonexistent.

## EASY TRAFFIC CONTROL

**T**raffic control can usually be accomplished with cones or a rolling safety zone. In case of an emergency, the operation can be shut down and the lane cleared and ready for traffic in under five minutes. Depending on surface material and desired texture, a lane mile per hour completion time is routinely accomplished on asphalt surfaces, and a half lane mile per hour on concrete utilizing two machines.



# SURFACE TEXTURE FOR SAFETY

**W**et weather friction capability of pavement surfaces can be checked by the ASTM E 274 test unit. It can work under traffic and give an indication of the macrotexture and microtexture available utilizing the appropriate test tires.



**M**acrotexture is the geometric rugosity that is quite obvious and visible. It provides surface canals that allow water to escape from between the tire and road in wet weather. The more macrotexture depth available, the greater the resistance to high speed hydroplaning. The Outflow Meter can measure the drainage capability of any pavement surface. Hydroplaning characteristics correlate generally with outflow tests. The ASTM E 524 bald tire also indicates macrotexture.

**M**icrotexture describes the microscopic angles and points on bedding mortar granules and on the face areas of exposed aggregate. This texture ruptures the thin film of water that clings to the surface after the macrotexture has evacuated the running water. These well-defined edges provide a tooth pattern that will enhance surface friction in wet or dry weather. The ASTM E 501 treaded tire indicates microtexture.



# PROVEN TECHNOLOGY



**W**et weather skid resistance can now be applied to most highways, bridges, and airport runways by the SKIDABRADER. The longevity exceeds new pavement.

**T**ire wear reduction and pavement friction can be enhanced simultaneously with the SKIDABRADER, even if previous attempts have produced marginal results.

# FAST MOBILIZATION



**S**KIDABRADER machines are designed to mobilize at maximum legal highway speeds.

# VERSATILITY



**C**oncrete surface preparation for bonded overlays is easy work for the SKIDABRADER. It removes a controlled amount of bedding mortar and trapped contaminants, and significantly changes the color without leaving machine-produced discolorations or overlap marks. The pores are left clean and open with a microscopic tooth pattern that is essential for maximum bond potential. A production rate of 1,500 to 3,000 square yards per hour per machine is normal for this type of work.



**S**urface depth removal up to 1/2 inch in a single pass can be accomplished safely and cost effective with the SKIDABRADER. There is no cleanup required, and structural integrity is retained. If steel is encountered, it is cleaned and left unharmed. Pre-existing cracks and weak surface mortar have a faster removal rate, and are easily detected. This method provides a highly exposed aggregate, displaying a clean rugged surface for the ultimate bond and overlay interlocking potential.

## ≡ SKIDABRADER ≡

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