

Improved Driving Safety in Rain and Enhanced Road Side Environment

PERVIOUS



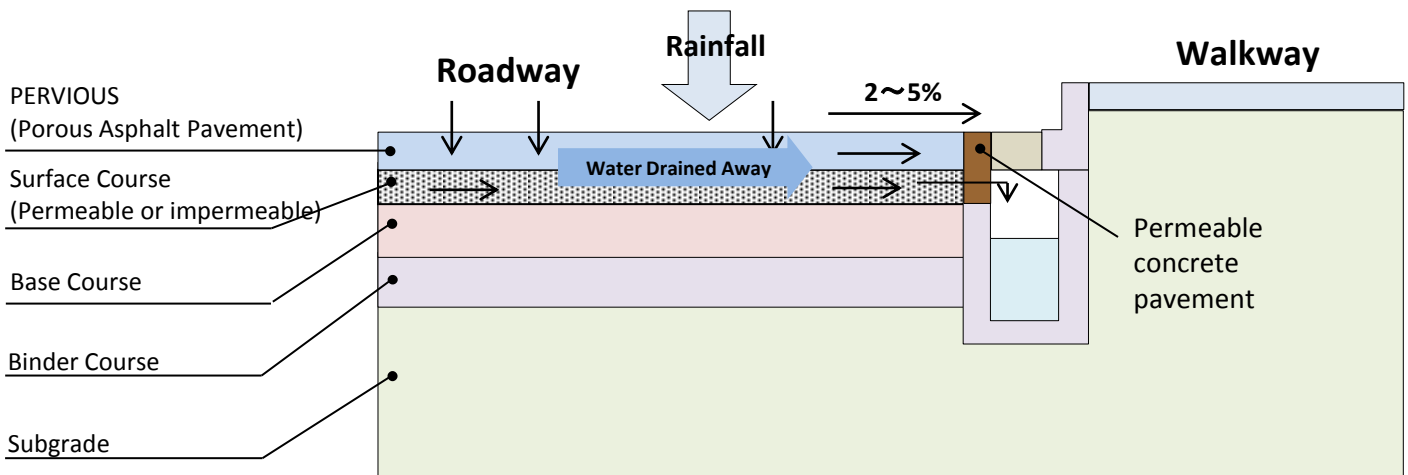
A city street on a rainy day (Left: conventional pavement Right: porous asphalt pavement)

In recent years, a great deal of attention has been paid to traffic noise and traffic accidents. "PERVIOUS" (porous asphalt) pavement which allows water to pass through the asphalt surface is one of the best solutions to these serious problems.

PERVIOUS effectively reduces tire noise, as well as engine-generated noise from vehicles. PERVIOUS's air void volume of 20% creates a multi-functional pavement with good permeability and water absorption rates.

When it rains or in a downpour, hydroplaning is greatly reduced if not eliminated and visibility of pavement markings is dramatically improved compared to normal pavement.

Structure of PERVIOUS



FEATURES of PERVIOUS

- (1) Enhanced driving safety of vehicles. PERVIOUS eliminates surface pooling and splashing.
- (2) Improved visibility in wet weather conditions at night.
- (3) Unlike conventional pavement, PERVIOUS provides excellent skid resistance, reduces deformation and scattering of aggregate.
- (4) Noise reduction: Compared to conventional asphalt pavement, traffic noise is much reduced on PERVIOUS, only 3 to 5 dB.
- (5) Using milling and overlay, this permeable PERVIOUS pavement can replace a conventional pavement surface of existing asphalt.

Application

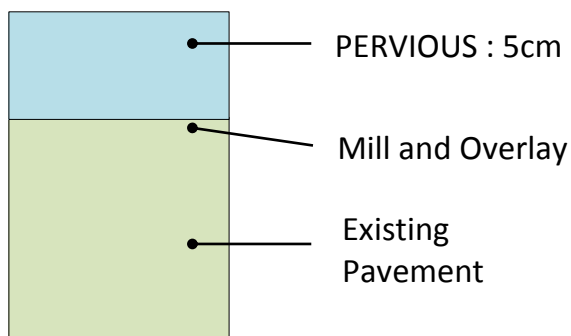
- Roadways such as highways, expressways and bypasses where road safety is required.
- Used on driveways to reduce splash /spray and for a low noise surface.

PERVIOUS Used in Highway Construction

Location : National Highway, Route 171, Oyamazaki, Kyoto

Date : November, 1987

Cross Section : Mill and Overlay $t=5\text{cm}$



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