Full Function Pave (FFP)

Longitudinal Groove Rough Surface Hybrid Pavement

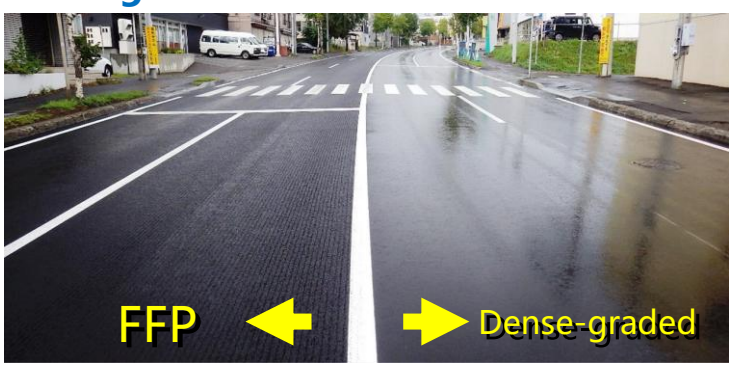
Full Function Pave (FFP)

Revêtement hybride à surface rugueuse
et à rainures longitudinales

Features

- The structure of FFP consists of two layers — a drainage layer and a waterproofing layer — formed in a single construction process.
- FFP contributes to driving safety by preventing hazards such as hydroplaning.
- Longitudinally grooved rough surface improves visibility and reduces road noise.
- Longitudinally grooved rough surface ensures long-lasting performance of the anti-freezing function.
- Longer service life is achieved with higher aggregate fretting resistance.
- Traffic safety is enhanced by preventing skidding accidents.

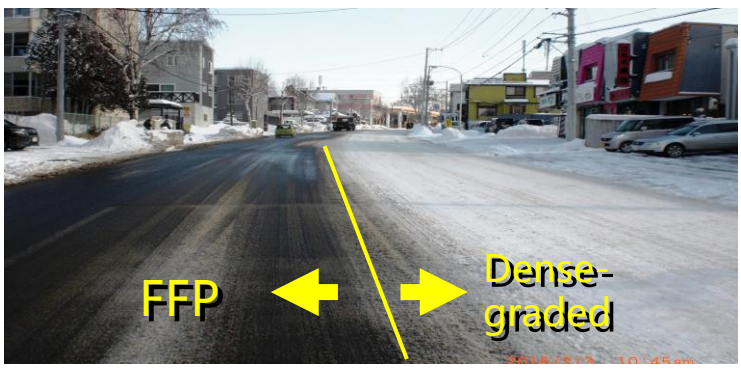
Drainage function



The drainage function of the upper layer helps prevent the surface from flooding in wet weather. Driving safety, therefore, is enhanced by preventing hydroplaning and smoking. In winter, FFP also prevents the formation of black ice.

Anti-freezing function

The longitudinally grooved rough surface excels in retaining deicing agent. Since the chloride retention rate is high, the effective duration of the anti-freezing function can be extended significantly. This chloride retention function is more effective than conventional dense-graded pavement in exposing the road surface. Another advantage is that the number of deicing-agent applications in winter road maintenance can be reduced.



Accident reduction function

The measurement results of the acceleration and angular velocity of a hard-braking vehicle revealed that the vehicle came to a stop with a smaller amount of turn in the yaw direction than on the dense-graded pavement. This result indicates that longitudinal grooving helps stabilize braking vehicles, thereby preventing skidding accidents.

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