

Super high fluidity-resistance pavement

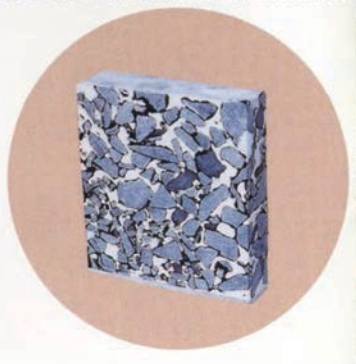
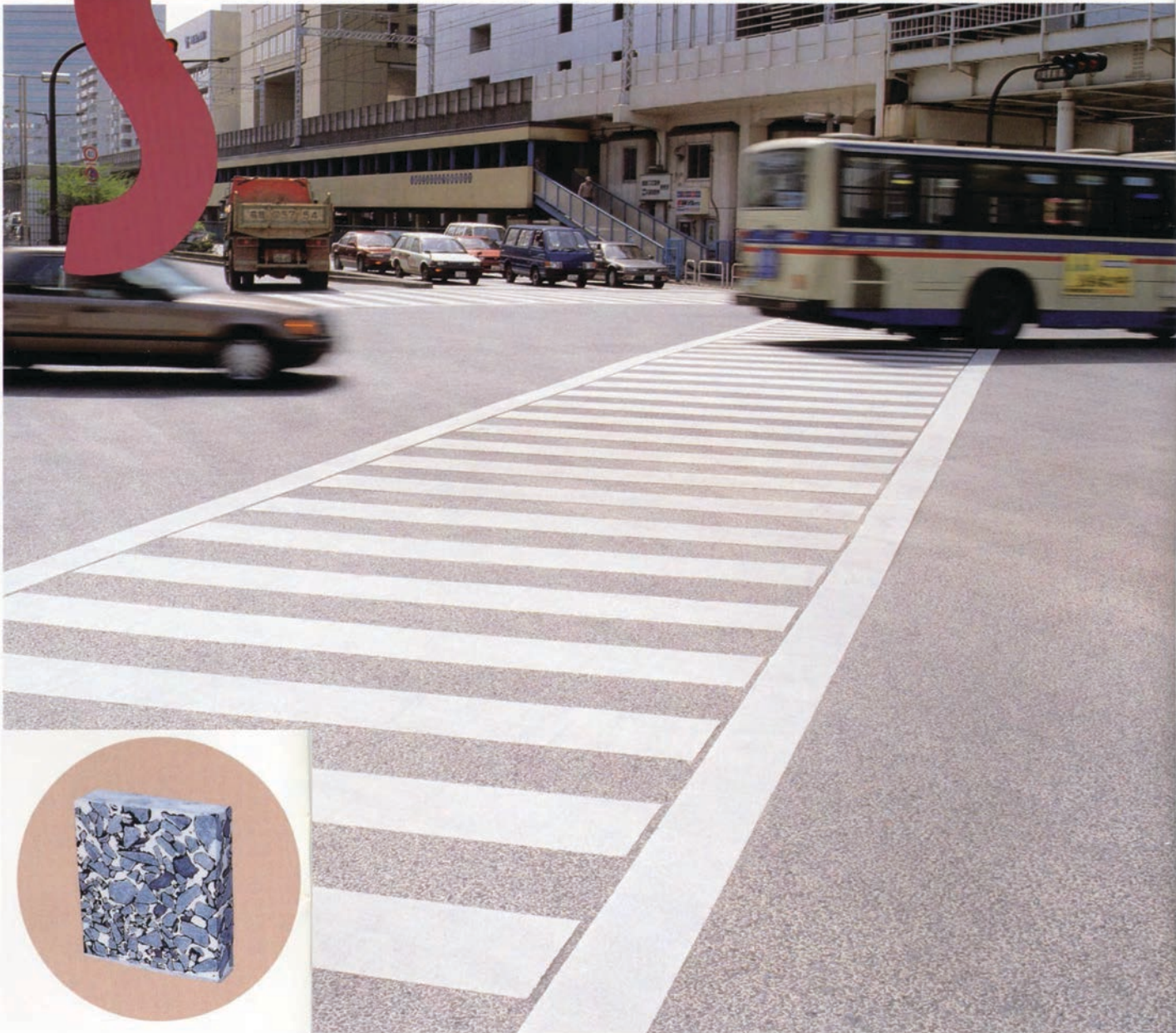
# 3-S Paving Method



Much Trust and Sure Technology

**KAJIMA ROAD**

# UPER STRONG SURFACE



3-S pavement construction method is applied to the permeation type semi-flexibility pavement.

Under this method, the voids of special basic asphalt mixture are filled in with 3-S cement milk and made hardened. This process enables to provide the flexible pavement with rigidity against consolidation and fluidity.

However, the stress alleviation property of 3-S pavement remains unchanged and thereby retains flexibility same as conventional asphalt pavement.



*Rutted status of ordinary asphalt*

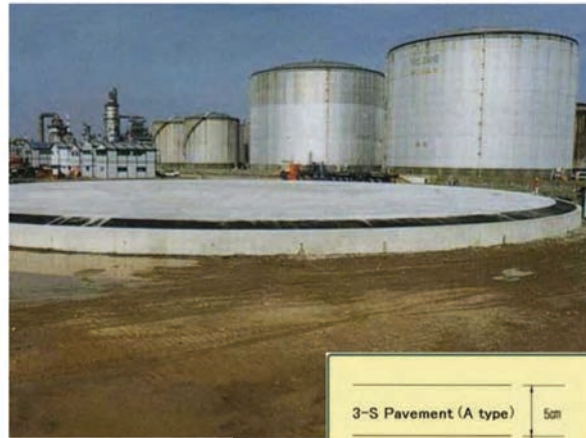
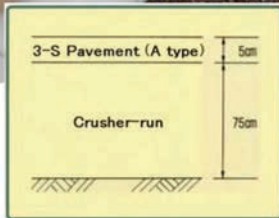
**KAJIMA ROAD's 3-S (Super Strong Surface) Pavement**

**is the pronoun of excellent semi-flexibility pavement.**

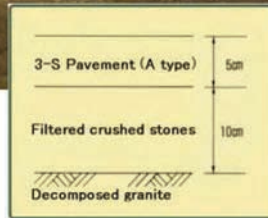
Foundation for high temperature tanks



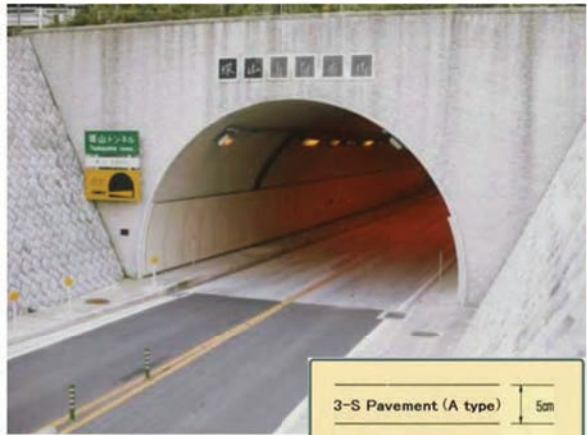
Sulphur tank foundation in Tomakomai city, Hokkaido Idemitsu Kousan Co., Ltd Temperature: 150°C Construction date: Jul, 1984 Area: 280cm<sup>2</sup>



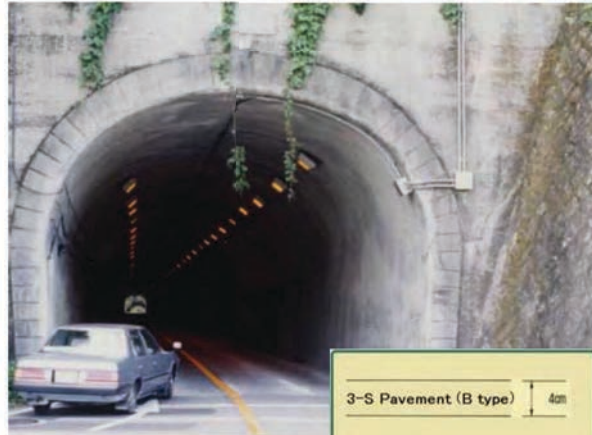
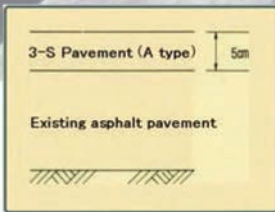
Asphalt tank foundation in Kurashiki city, Okayama Nippon Mining Co., Ltd. Temperature: 180°C Construction date: Sep, 1988 Area: 1 380cm<sup>2</sup>



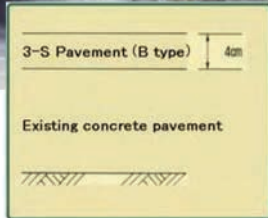
Pavement in Tunnels



Tsukayama Tunnel in Yokoska city, Kanagawa pref. Kanagawa Prefectural Road Public Corporation Construction date: Dec. 1991 Area: 2,830cm<sup>2</sup>



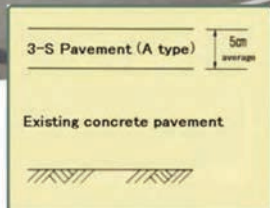
Kuroiwa Tunnel in Yame city, Fukuoka pref. Fukuoka Prefectural Yame Civil Office Construction date: Ncv. 1991 Area: 990cm<sup>2</sup>



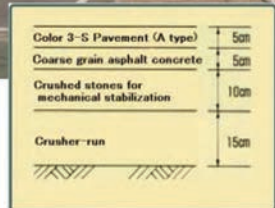
Gasoline Station • Park



Service Station in Ayauta county, Kagawa pref. Iriya Sangyo Co., Ltd Construction date: Jun. 1991 Area: 480cm<sup>2</sup>



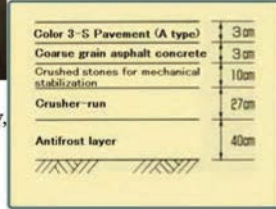
Fukuoka city Fukuoka pref. Entrance path to West Park of Fukuoka city Construction date: Jan. 1989 Area: 1,330cm<sup>2</sup>



# Parking lot



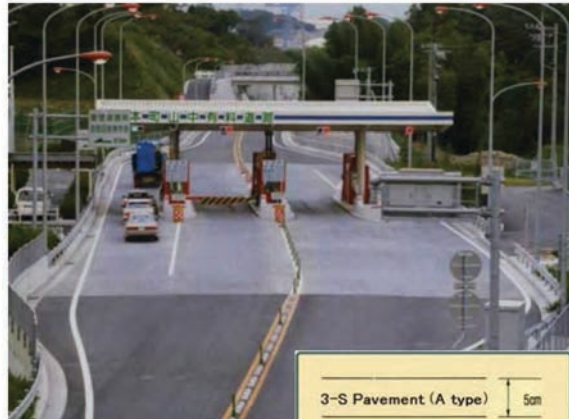
Ichinohe town Ninohe county,  
Iwate pref.  
Ichinohe astronomical  
observatory  
Construction date: Nov.1989  
Area: 263 m<sup>2</sup>



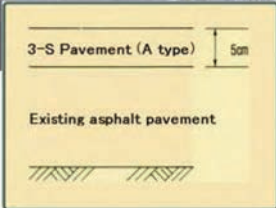
Kan-etsu Highway Miyoshi  
Parking Area  
Japan Highway Public  
Corporation  
Construction date: Oct. 1991  
Area: 27,000 m<sup>2</sup>



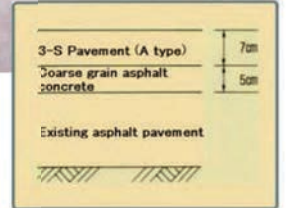
# Toll House



Toll road in Yamanaka  
Motomachi, Yokosuka city,  
Kanagawa pref.  
Kanagawa Prefectural Road  
Public Corporation  
Construction date: Feb. 1991  
Area: 1,840m<sup>2</sup>



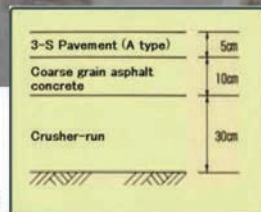
Atami Beach line, Shizuoka  
pref.  
Mitsui Kanko Development  
Co., Ltd.  
Construction date: Jun. 1991  
Area: 1,730m<sup>2</sup>



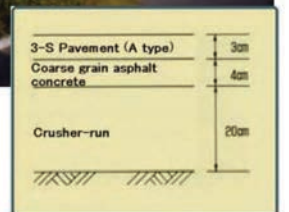
# Ascending traffic lanes



Himeji city, Hyogo pref.  
Access road to Aoyama  
children park (i=12~15%)  
Construction date: Mar. 1989  
Area: 5,600m<sup>2</sup>



Naojima Contemporary  
Museum in Kagawa county,  
Kagawa pref.  
Benesse Corporation  
Construction date: Feb. 1992  
Area: 410 cm<sup>2</sup>



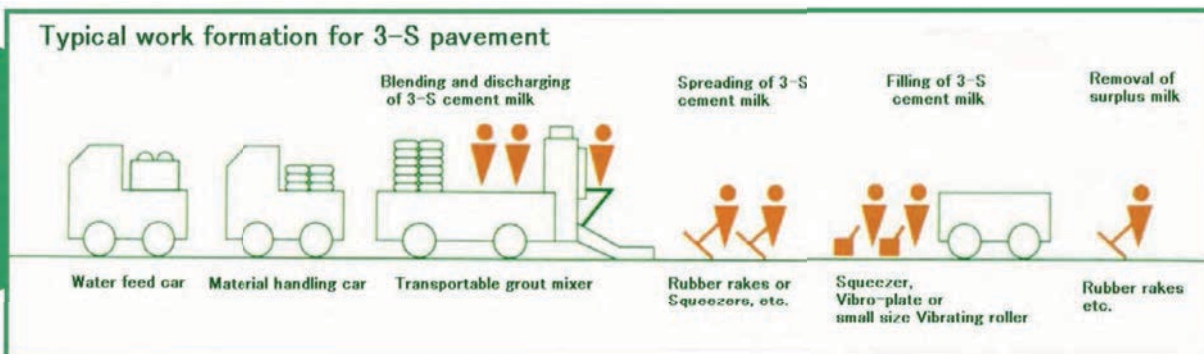
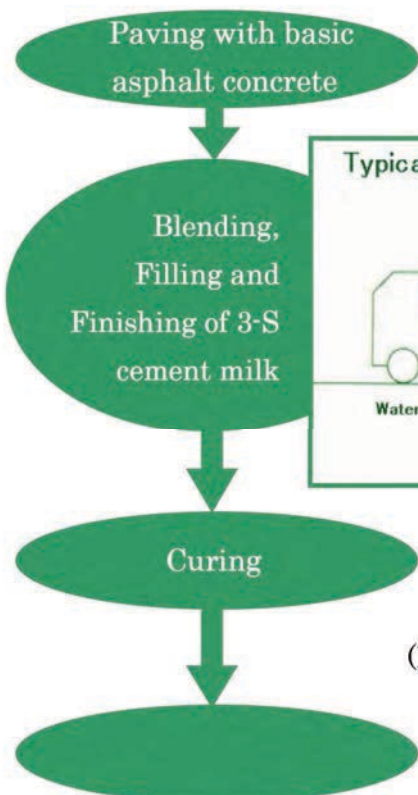
# High comprehensive evaluation

The required performance evaluation of 3-S pavement for heavy traffic roads is studied by comparison to the ordinary asphalt pavement and concrete pavement, 3-S pavement is accredited with high advantageous performance in summaries.

	Asphalt pavement	3-S pavement	Concrete pavement
Traveling performance	△	◎	○
Sliding resistance	◎	◎	◎
Visibility	△	◎	◎
Durability	△	○	◎
Work Executability	◎	◎	△
Initial cost	◎	◎	△
Total evaluation	△	◎	○

# Paving method

The construction of 3-S pavement same as a conventional pavement method is made in the initial phase by using asphalt mixtures as a main component then proceeds to the process of mixing, filling and finishing by using 3-S cement milk as shown hereunder.



Type A (For general use): 1~2 days

Type B (For rapid hardening purpose) : 3~6 hours

(Note; Some adjustment is needed subject to work conditions and meteorological conditions etc.)

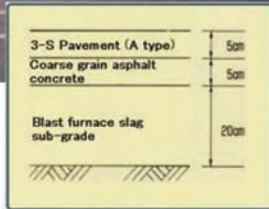


# Construction Examples

Container yard



Kobe city, Hyogo Pref.  
Kobe Port Terminal Corporation  
Construction Date: Nov. 1989  
Area: 14,890m<sup>2</sup>



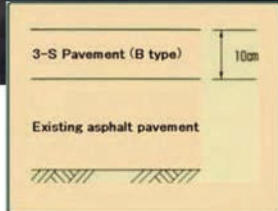
Shinagawa-district, Tokyo  
Tokyo Port Terminal Corporation  
Construction date: Mar. 1986  
Area: 15,750 m<sup>2</sup>



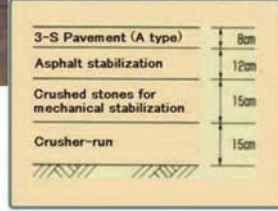
Wharf and Yacht harbor



Yokkaichi-city, Mie pref.  
Yokkaichi administration port union  
Construction date: Jan. 1992  
Area: 2,327 m<sup>2</sup>



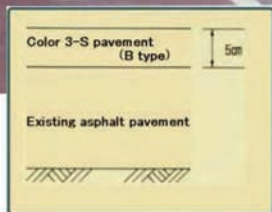
Miura-city, Kanagawa pref.  
Asahi Kaiyo Co.,Ltd.  
Construction date: Dec. 1989  
Area: 2,124 m<sup>2</sup>



Bus stops • Intersections



Bus stop at Shiroyama  
Niigata city, Niigata pref.  
Ministry of Construction (Hokuriku Region Development Bureau)  
Construction date: Sep. 1986  
Area: 120 m<sup>2</sup>



Intersection at Tsukimino  
Yamato city, Kanagawa Pref.  
Sagamihara Civil Office  
Construction date: Aug. 1992  
Area: 900 m<sup>2</sup>

