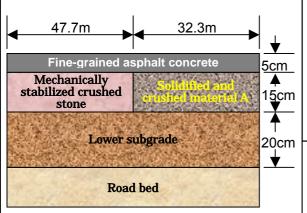
The workability and serviceability of granular solidified coal ash subgrade material are confirmed to be the same as those of natural crushed stone.

Experimental application on the premises of a power plant A (M-40)





Characteristics of solidified coal ash as subgrade material

Specific gravity in surface-dry state : 1.70

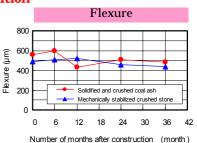
Compression strength : 288 N/10mm

 $\begin{array}{lll} \text{Fineness modulus} & : 5.31 \\ \text{Abrasion loss} & : 33.0 \% \\ \text{Optimum moisture content} & : 37.0 \\ \text{Maximum dry density} & : 1.113 \text{ g/cm}^3 \\ \end{array}$

Modified CBR : 90.2 %

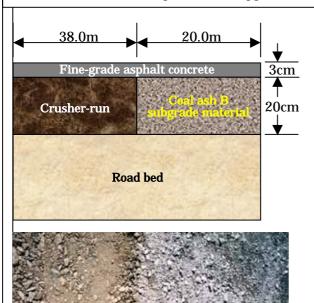
Changes in road surface condition





Sample		Immediately after production	1 years after construction	2 years after construction	3 years after construction	Soil environmental standards
Compression strength	[N]	288.2	282.6	372.9	326.6	-
Specific gravity in surface-dry state	[-]	1.7	1.72	1.72	1.73	-
	F	<0.2	<0.2	<0.2	<0.2	<0.8
	В	0.14	0.1	0.11	0.18	<1.0
Elution of	Pb	<0.001	<0.001	<0.001	<0.001	<0.01
hazardous heavy	Cd	0.0001	<0.0001	0.0001	0.0001	<0.01
metals	As	0.003	0.004	0.004	<0.003	<0.01
[mg/L]	Cr6+	<0.01	<0.01	0.01	<0.01	< 0.05
	T-Hg	< 0.0005	<0.0005	< 0.0005	<0.0005	< 0.0005
	Se	< 0.003	< 0.003	< 0.003	< 0.003	<0.01

Experimental application on the premises of a power plant B (C-40)



Characteristics of solidified coal ash as subgrade material

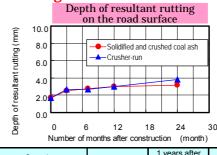
Specific gravity in surface-dry state : 1.60

Compression strength : 227 N/10mm

 $\begin{array}{lll} \mbox{Fineness modulus} & : 5.32 \\ \mbox{Abrasion loss} & : 43.0 \% \\ \mbox{Optimum moisture content} & : 41.6 \\ \end{array}$

 $\begin{tabular}{lll} Maximum dry density & : 1.145 g/cm^3 \\ Modified CBR & : 113.5 \% \\ \end{tabular}$

Changes in road surface condition





Sample		Initial	1 years after construction	2 years after construction	3 years after construction	Soil environmental standards
Compression strength	[N]	227	285	270	261	_
Specific gravity in surface-dry state	Ξ	1.60	1.59	1.61	1.66	_
Elution of hazardous heavy metals [mg/L]	F	<0.2	<0.2	<0.2	<0.2	<0.8
	В	0.42	0.19	0.26	0.2	<1.0
	Pb	<0.001	<0.001	<0.001	<0.001	<0.01
	Cd	0.002	< 0.001	<0.001	<0.001	<0.01
	As	0.003	0.004	0.006	0.004	<0.01
	Cr6+	0.02	0.01	0.03	0.03	< 0.05
	T-Hg	<0.0005	< 0.0005	<0.0005	<0.0005	< 0.0005
	Se	< 0.003	< 0.003	< 0.003	< 0.003	<0.01