

Shallow Soil Mixing

SCM_{METHOD}

Rotary Blender & Bucket Mixing



Surface Compact Mixing



Shallow Soil Mixing Applicable to Various Site Conditions

SCM (Surface Compact Mixing) is a method to mechanically mix in-situ soil with cement powder or slurry. SCM provides two different mixing equipments, Rotary Blender and Bucket Mixing, to be selected depending on improvement objectives and depth. The unique mixing mechanism provides efficient, cost effective and quality improvement. Larger plant is not necessary. The mixing device can be attached to a local 0.7 - 1.0m³ excavator.

● Mixing Mechanism

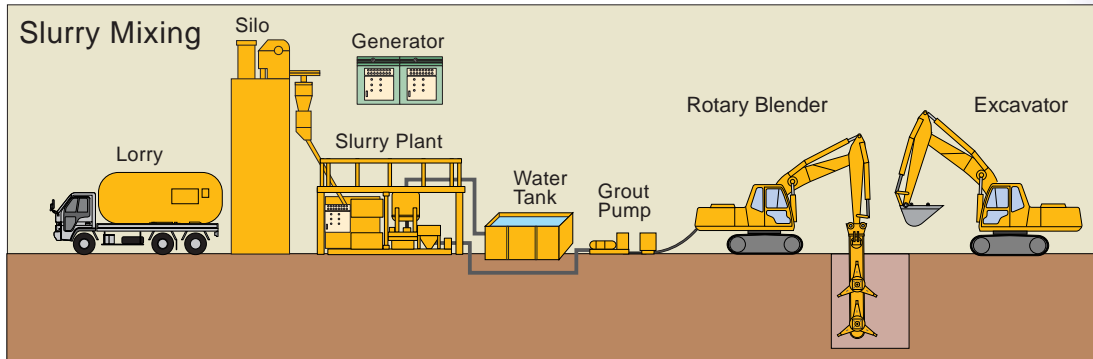
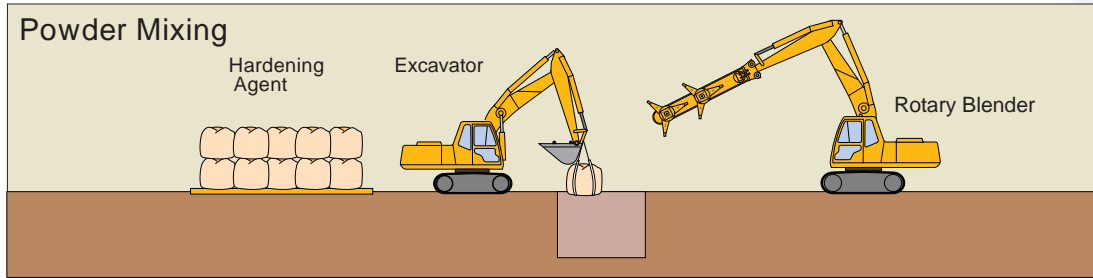


Bucket Mixing Type



Rotary Blender Type

● Concept



● Construction Example



Powder Mixing to reinforce subgrade under embankment



Slurry Mixing to prevent road settlement

	Maximum Improvement Depth		Applicable Soil	
	Powder	Slurry	Sandy Soil	Cohesive Soil
Rotary Blender	3.0m	4.0m ¹	$N < 10$ ²	$N < 5$
Bucket Mixing	1.0m	2.0m	$N < 15$	$N < 5$

¹ Up to 7.0 m with attachment

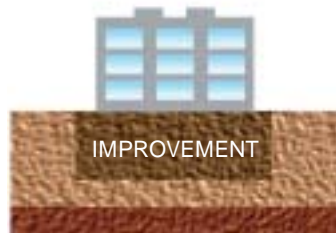
² SPT N value

● Application

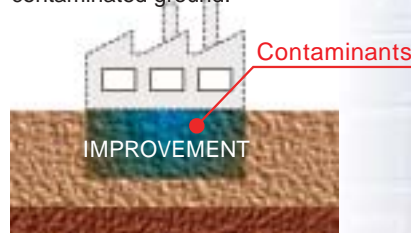
Slip failure or settlement prevention for embankment



Mat foundation of structures



Solidification and stabilization of contaminated ground.



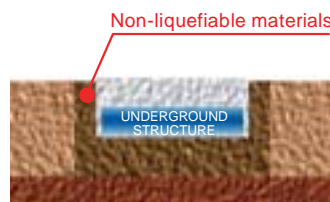
Settlement prevention for road subgrade



Foundation for heavy equipment



Liquefaction prevention





4-2-35, Kudankita, Chiyoda-ku, Tokyo 102-8236 JAPAN
TEL. +813-3265-2506
FAX. +813-3230-1709
E-mail overseas@raito.co.jp
URL <http://www.raito.co.jp>