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## Fundamental Study for Practical Application of Solid Waste Disposal System for Landfill Disposal of Incineration Residue

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A method to process disaster waste occurring at the time of a giant earthquake in large quantities easily and quickly is demanded in the field of waste. Therefore, we developed a new solidification expression disposal system that applied the super fluid method of construction to add cement in burned residue, and to provide high frequency vibration. In this way, we reduced the toxic substance elution density by earthquake-resistant improvement and increase the landfill capacity and rainwater penetration restraint for waste. We studied the basic properties of the materials of the solidification body to grasp the basic nature and impression of the waste.

As a result, the compressive strength became  $5\text{N/mm}^2$  with the prescribed composition, and the elution of harmful substances such as lead was suppressed, resulting in substantially impervious water.

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