Tech Letter

Fly Ash in Remediation

The Remediation Process

Remediation is the act or process of removing, correcting, or restoring a waste site, either hazardous or nonhazardous, using one of several different techniques available. The desired end result of remediation is a neutralized site. Solidification and stabilization (fixation) are remediation techniques which may utilize fly ash as a major component in treating wastes.

The Use of Fly Ash in Remediation Projects

Fly ash has several appealing qualities for use in a remediation project including reasonable cost, consistency, reactivity, and versatility. The pozzolanic or cementitious properties of the fly ash and its ability to solidify certain wastes may further enhance the benefits of using fly ash in these projects.

Fly ash may render a treated waste more readily transportable, thus increasing the options for final disposal. The designed use of fly ash remediation projects can in most cases reduce the mobility and toxicity in some wastes, thus meeting two of the three criteria established for remediation work in Section 121 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

Types of Waste Compatible with Fly Ash

The inorganic nature of fly ash may allow for the successful stabilization of some inorganic waste components. Research conducted by the Environmental Protection Agency has shown that fly ash is compatible with several categories of waste.* The majority of these wastes are inorganic including: acid wastes, oxidizers, sulfates, heavy metals and radioactive materials. Fly ash has also been determined to be compatible with some solid organics (i.e. plastics, resins, tars).

Boral Material Technologies, one of the world's largest marketers of both ASTM Class C and Class F fly ash, wishes to assist you in meeting your remediation project specifications. Boral has sources of both high calcium and low calcium fly ash and has the capacity to fill large and/or constant demands in most areas. Please contact our corporate office or the sales office nearest you for sales information.

1 Cullinane, M.J. et al., *Handbook for Stabilization/Solidification of Hazardous Waste*, U.S. Environmental Protection Agency, Report No. EPA/540/2-86/001.

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Consult your Boral Representative for further information on using Boral Fly Ash in remediation projects

Boral Material Technologies is a major processor and marketer of coal combustion products in the United States. With over 40 years of marketing experience, Boral is committed to supplying quality products broadly supported with skilled technical sales professionals. To meet both our customer's present and future needs with coal combustion products Boral continues its commitment to customer based research and development and broad based marketing programs.

For more information on our complete line of products, contact your local Boral representative, corporate office or visit us online at www.boralmti.com.

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