Vast Array of Ash-Based Products

Boral Resources offers a wide variety of coal ash-based products that can be beneficially used in manufactured goods, such as concrete and wallboard, as well as structural fill, soil, and agricultural applications. Whether derived from current-production sources (power plants) or harvested from landfills or ponds, these products are engineered to meet applicable ASTM and AASHTO standards and include:

Fly Ash—Boral's Class F fly ash increases concrete's ultimate strength, reduces drying shrinkage and permeability, lowers heat of hydration, and reduces creep. Our Class C fly ash is useful in applications where high early strengths are required, as well as in soil stabilization.

Bottom Ash—A heavier, granular material than fly ash that is collected from the bottom of coal-fueled boilers, bottom ash can be used to replace sand and gravel as an aggregate, construct structural fills and embankments, and as raw feed in cement manufacturing.

Synthetic Gypsum—A product generated by the flue gas desulfurization (FGD) systems that remove sulfur dioxide from the gas emissions of coal-fueled power plants. Dewatering can then produce a quality gypsum cake with diverse uses in the wallboard, cement, and agricultural sectors.

Micron³™—An ultrafine pozzolan processed from selected fly ash that is used to improve the durability, strength, and impermeability of high-performance concrete.

Sintered Light Weight Aggregate—A high-value construction aggregate that can be produced by drying and sintering fly ash, either current production or recovered from landfills or ponds.

Celceram®—An engineered material comprising inorganic solid and semi-solid calcium aluminosilicate glass spheres that can be used as a functional filler in polyolefin, PVC, asphalt, reactive polyurethane, and latex-based products.

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