ECOMATERIAL TECHNOLOGIES
A CRH COMPANY

TECHNICAL BULLETIN

PozzoSlag® 3.0J

Mineral matter, created in furnaces of coal-fired power plants as finely ground coal burns, is thermally changed to what is generically referred to as "fly ash." The fly ash produced escapes and is captured in a bag house or electrostatic precipitator. Eco Material Technologies then processes this Class C fly ash in a patented process along with additives, creating a pozzolanic "green cement" that is highly reactive—PozzoSlag® 3.0J (PS 3.0J).

When used in flowable fill applications, PS 3.0J mix designs can reduce binder to aggregate ratio, providing economic advantages. In addition to making a flowable fill that has quick set time, great workability, and flowability, work can be resumed on the fill in 15 minutes. As an added benefit, inter ground additives help give higher air content than what is achievable with 3.0, or simple fly ash.

Eco Material's patented process reduces oversized fly ash particles while preserving particle shape, thus improving flow characteristics while improving hydration quality. Set time is much quicker than Class C ash-based flowable fill because of the inter ground additives, which guarantee consistent performance in all environmental conditions. Utilization costs are reduced because improved performance allows for a leaner mix design—typically, 325 lbs./yard^3—for a desired compressive strength.

PS 3.0J, when used in 3 to 4 sack mix designs, attains the following properties:

ASTM C109 Compressive Tests
In 1 day attains 50 to 80 psi; at 28 days it attains 150 to 250 psi depending on sand quality. (Recommend up to 20% air using customer's air entrainment.)

ASTM C39 Concrete Cylinders Utilizing 3 to 4 Sack Mix Design
In 1 day attains 60 to 80 psi; at 28 days it attains 150 to 250 psi depending on sand quality. (Recommend up to 20% air using customer's air entrainment.) Typical specific gravity is 2.70.

Set Time
10 to 15 minutes, temperature dependent.

Base Material PozzoSlagC Is DMS 4160 TXDOT Approved
PozzoSlag 3.0J is produced with an approved fly ash source and listed in TXDOT's Material Producers List under PozzoSlagC.

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