# CarbonBlocker™

**A patented fly ash treatment system for coal-fired power plants – effective on powdered-activated carbon (PAC) – with minimal capital costs and no plant interruption.**

Air pollution regulations have led to an increase in carbon levels found in fly ash, threatening its viability in air-entrained concrete applications. Enter CarbonBlocker technology – providing a commercially viable method to treat fly ash, allowing it to be used with predictable performance in air-entrained concrete.

## TWO CHOICES:

- Cementium 6500: For Natural carbon applications
- Cementium 6510 SP: For PAC applications

## MULTIPLE BENEFITS:

- More efficient than traditional applications (50% less chemical required)
- Better performance relative to carbon neutralization and air stability over extended mixing cycles
- Enhanced air stability and air quality in the presence of water reducers and super plasticizers

## GOOD FOR FLY ASH. GOOD FOR PLANT MANAGERS:

- Easily adjustable treatment process
- Non-toxic, environmentally friendly treatment solution
- No effect on ash throughput and no additional waste products/emissions
- No impact on truck loading times
- Low capital cost – ranging from $250K to $500K per silo
- Fast implementation – typically 2-3 months to design, build and ship; 2-3 days to install.

## How it works:

CarbonBlocker is a patented system that combines liquid chemistry and bulk powder handling. It brings chemistry to fly ash in a bulk flow environment which, ultimately, coats individual carbon particles. It alters the absorptive nature of the carbon particle and satisfies its potential to absorb air-entraining admixtures in the concrete mix.

| ASH TYPE | LOI% | AIR % BEFORE | AIR % AFTER |
|----------|------|--------------|-------------|
| CLASS F  | 6%   | 1.5%         | 5.5%        |
| CLASS F  | 14%  | 1%           | 6%          |
| CLASS C  | 3.5% | 2%           | 5.2%        |
| CLASS C  | 4%   | 1.8%         | 5.5%        |
| BLEND    | 3.8% | 1.5%         | 6%          |
| BLEND    | 5%   | 0.9%         | 5%          |
| BLEND    | 6%   | 0.7%         | 5.5%        |

**Interested in CarbonBlocker?**
**To learn more, call 877 747 3775 or visit wmsolutions.com/utility.**

**WM**
**WASTE MANAGEMENT**®

**THINK GREEN.**®