

COST-EFFICIENT AND EFFECTIVE  
**DUST CONTROL  
SOLUTIONS**

**LEADING EDGE TECHNOLOGY**

*Increased Health and Safety  
Environmental Compliance  
Improved Equipment Performance and Reliability  
Reduced housekeeping and transfer Costs*

**STRATEGEM ICEBERG INDUSTRIAL  
SOLUTIONS INDIA PVT LTD PUNE**

## The leader in DUST CONTROL PROGRAMS FOR A SAFE WORKPLACE AND CLEAN ENVIRONMENT



### Economical, Efficient, Eco-friendly Solutions for DUST CONTROL

Strategem understands the challenges that come with material handling and the fugitive dust it produces:

- Air Quality Concerns
- Environmental Compliance
- Health and Safety Issues
- Higher Operating Costs due to lost material
- Lost Production Time
- Premature Equipment Wear

Strategem is committed to implementing progressive programs that effectively improve the environmental conditions and safety of your operations. The integration of our expertise with innovative products, services and emerging technologies delivers proven solutions that:

- Reduce Fugitive Dust
- Increase Health and Safety
- Lower Risk of fire and explosions
- Improve Equipment Performance
- Minimize O&M Costs
- Help Ensure Environmental Compliance

# EXPERTS IN BULK MATERIAL HANDLING



## PROVEN ENGINEERING TECHNOLOGY WITH SUPERIOR PRODUCT PERFORMANCE

Dust is a pervasive problem when dealing with many types of material, interfering with all aspects of your business. Strategem's Dust Suppression Systems provide a low maintenance, cost- effective reliable solution to combat those problems.



For over 30 years, Strategem's engineering team has been dedicated to the design, fabrication and installation of Dust Suppression Systems. Our approach has resulted in hundreds of satisfied customers who are now able to achieve year-round dust control. Through engineered innovations and tested and tried dust suppression agents, Strategem has become the leader in Dust Suppression products and services worldwide at:

- Mines
- Ports and Terminals
- Refineries
- Cement Plants
- Aggregate Operations
- Coal-Fired Power Plants
- Biomass Power Plants
- Pet Coke Power Plants
- Steel Mills and Coking Facilities



Our system control fugitive dust in all areas of the material handling process

- Stock Piles
- Transfer Points
- Stackouts
- Haul Roads
- Transloading Hoppers
- Rail and Truck Dumps



## UNTREATED VS TREATED:



Limestone



Coal



Iron Ore



Biomass



Petroleum Coke & Metallurgical Coke



Taconite



**Ship Unloading Hopper**



**Truck Unloading Hopper**



**Underground Mining Spray Block Nozzles**



**Stackout**



**Pile Sealer**



**Bottom Truck Dump Sprays**



**Conveyor Transfer Point**



**Railcar Topper**



**Conveyor Head Box Sprays**



**Trans Loading Hopper Sprays**

# SOLUTIONS



## ST-210W

### PRODUCT DESCRIPTION

Strategem ST-210 is a medium term Dust Suppression Solution for all types of bulk materials. This cost effective product is formulated to provide a means of reducing dust levels in coal, coke and other material handling facilities. Its residual properties allow it to be applied at fewer points in the system, minimizing water addition, and reducing equipment and installation cost.

### PRIMARY USES

Controlling airborne dust generated during the conveying process including: loading/unloading, transfer points, stackout and anywhere along the conveyor .

### BENEFITS

- Minimizes water addition
- Cost competitive mid-term residual agent
- Requires less equipment at fewer application points
- Can be used with most standard wet application systems
- Proven effectiveness on oily, hard to wet products, including coal and petroleum coke dust
- Environmentally safe

### APPLICATION

ST-210W should be applied with a dedicated wet dust control system.



## ST-468- HAUL ROAD DUST CONTROL

### PRODUCT DESCRIPTION

Strategem ST- 468 controls airborne dust from dirt/gravel roads caused by heavy equipment traffic. It is a lignosulfonate based haul road dust suppressant formulated with surfactant additives to promote penetration and improve spread ability.

### PRIMARY USES

This product is a cost effective means of reducing dust on haul roads, parking lots, and other high traffic dirt, gravel or coal surfaces

### BENEFITS

- Cost competitive
- Non-oil based, ecologically safe
- Protects against wind erosion
- Easy application procedures
- Non-corrosive
- Contains additives to promote penetration, improve spread ability, and prevent excessive run-off
- Easy clean-up

### APPLICATION

ST- 468 should be applied with a hydro-seeder water truck, or water wagon equipped with standard spraying equipment for adequate application.

# SOLUTIONS

## GREENTARP® -PILE SEALER, STABILIZER & EROSION CONTROL

### PRODUCT DESCRIPTION

GreenTarp is a blend of polymeric emulsion binding agents, surfactants, and recycled cellulosic products formulated to reduce fugitive dust emissions and erosion from inactive storage piles and various ground covers. Seals all types of material including coal, coke, metallic ores, fly ash, mine tailings, waste materials and ground covers.

### PRIMARY USES

With its distinctive green color, GreenTarp enhances community relations while providing superior pile sealing, stabilization and erosion control. Green Tarp provides a rain-resistant and windproof surface which minimizes frozen material, oxidation and energy loss. It stabilizes surfaces to resist shifting, sink failures and material run-off.

### BENEFITS

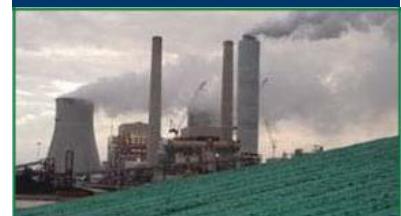
- Minimizes inventory loss
- Keeps you in regulatory compliance
- Non-toxic, non-corrosive

### APPLICATION

GreenTarp should be applied with a hydro-seeder water truck equipped with standard spraying equipment for adequate application.



Dries to a green color for aesthetically pleasing appearance



Stabilizes surface to resist surface erosion and fugitive dust

## ST-955- BELT DE-ICER

Strategem's freeze control agents utilize our advance chemistry to modify and weaken the crystal structure of ice so that it readily fractures. Specifically formulated to work as both freeze control conditioning agents and dust control agents, these products also hold fugitive dust particles on coal surfaces to reduce dusting when off loading and handling under the harshest operating conditions.

### PRODUCT DESCRIPTION

ST-955 is a glycol based belt de-icer blend of freeze point depressant side release agents that inhibit the cohesive bonds between wet material and cold conveyor belt surface.

### BENEFITS

- Protects to -1 °F
- Reduces frozen material from sticking to conveyor belt
- Non-corrosive. Will not damage conveyor belting

### APPLICATION

This product is applied as delivered (neat). The product is applied using a Strategem pumping/metering system and spray manifolds.



Harsh temperatures resulting in frozen material and equipment can halt operations. Strategem Freeze Conditioning Agents can help.



Strategem's blending systems have been proven to be the most reliable, efficient, safe and economical. We offer several state-of-the-art design options to ensure optimum results.

## CLEANPAK APPLICATION SYSTEMS

Strategem's CleanPak Application System provides optimum results without expensive and complex equipment. Installation is simple and requires a low initial cost. Ongoing maintenance needs are minimal and can be done in-house or by Strategem professionals.

### Design Features

- The system utilizes an existing water system and a single chemical pump to provide a balanced flow of wet surfactant solution to the application points.
- Chemical rates are adjusted based on water hardness, amount of fines in coal and type of application.
- ON-OFF Operation for Performance test, Automated for permanent installation using coal on belt detection and belt running signals.

## STRATEGEM APPLICATION SYSTEMS

Strategem's Application System produces proven results in all seasons. Its stainless steel fabricated enclosure protects water and chemical piping along with the support system control panel.



## OUTSTANDING MAINTENANCE

Our service sets us apart. Strategem's fully trained field technicians are on call 24/7 providing on-site technical service and on-going maintenance. They are fully equipped at all times with the tools and replacement parts needed to keep your systems running properly and to ensure your material handling needs are met.

- Support and Maintenance:
- Equipment Startup & Personnel Training
- Dust Monitoring
- System Performance Analysis
- Annual Management Reports



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