

# Why Environmental Technology Verification



Is Valuable For You  
and  
Why Midwest Supports  
ETV



Environmental Technology  
Verification  
is Independent,  
Expert Verification of  
Manufacturer Claims About  
Their Product  
and Protects Users  
From Deceptive or  
False Claims

# Midwest Industrial Supply, Inc.

Participates in studies to generate performance data which allows you to evaluate our product, Soil-Sement®.

For Example:

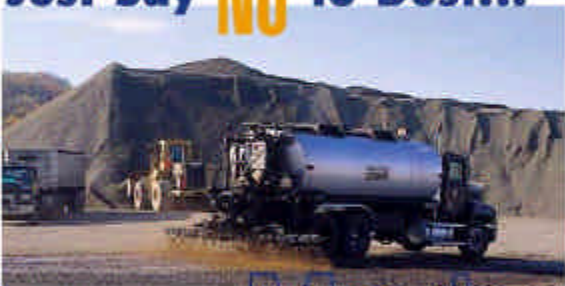
Between January 1994 and November 1995, the Kern County Air Pollution Control District conducted a side-by-side assessment of dust palliatives on graded dirt roads near Ridgecrest, CA, in the Mojave Desert. After one year and two treatments with the same dust suppressants on the same roads, Project DUST reported the following results:

Dust Suppressant	Effectiveness at Reducing PM <sub>10</sub> Emissions
Acrylic copolymer (Soil-Sement)	90%
Pine resin (Road Oyl)	30%
Magnesium chloride (a CDI product)	20%
Calcium chloride (a CDI product)	10%
Lignosulfonate (Lignosite)	20%
Petroleum resin #1 (Coherex)	1%
Petroleum resin #2 (PennzSuppress D)	10%

## Just Say "No" to Dust...Maybe

*Enforceable regulations and powerful, environmentally sensitive products are beginning to have a real impact on the dust suppression industry, but more testing is needed.*


# Just Say "NO" to Dust...



# Maybe

By Mark Saunders

Stormwater  
Erosion Control  
Grading & Excavation  
MSW  
Forester

  
Talk to us!

SUBSCRIBE

# Some Competitors. . .

Actually Use Soil-Sement's Performance Results From the Study to Make Claims About Their Product, When Their Product Has Not Been Tested in the Study.

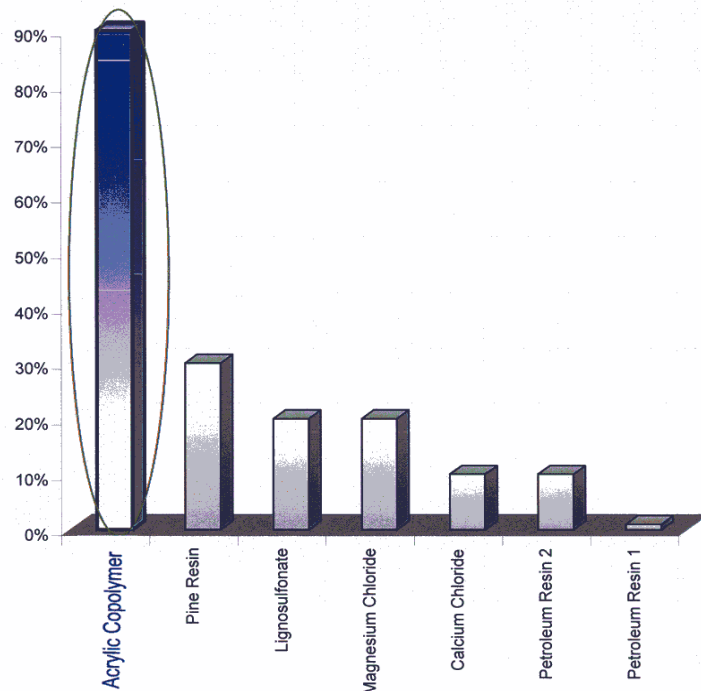
For Example:



PO Box 786, Gilbert, AZ 85299-0786  
Phone: (480) 659-4747 Fax: (480) 892-7755  
Email: [info@envirotac.com](mailto:info@envirotac.com) Website: [www.envirotac.com](http://www.envirotac.com)  
*"Protecting Our Environment From the Ground Up"*

## Envirotac II®

% Effectiveness for Reducing PM<sub>10</sub>  
comparisons between Acrylic Copolymers, Pine Resin, Lignosulfonate, Magnesium Chloride, Calcium Chloride, and Petroleum Resins



Envirotac II® is an Acrylic Copolymer.  
Acrylic Copolymers are significantly more effective for reducing PM<sub>10</sub> than other competing dust suppressants.

Source: Sanders, Mark. (2000). Just Say "No" to Dust...Maybe [Online]. Grading & Excavation Contractor. Available: [http://www.forester.net/gec\\_0005\\_just.html](http://www.forester.net/gec_0005_just.html) [2002, January]

Envirotac II®

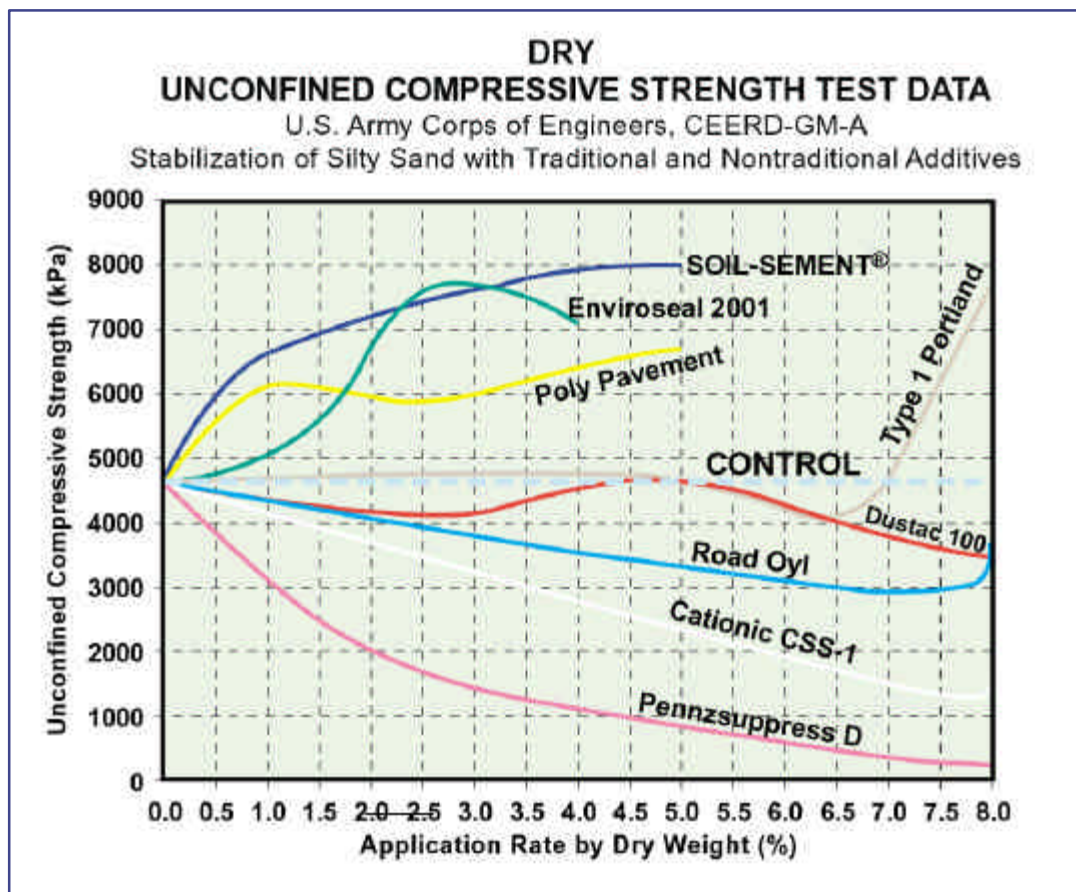
The Environmental Solution for Soil Stabilization (Dust & Erosion Control)

3/28/02

(Misleading,  
Deceptive)

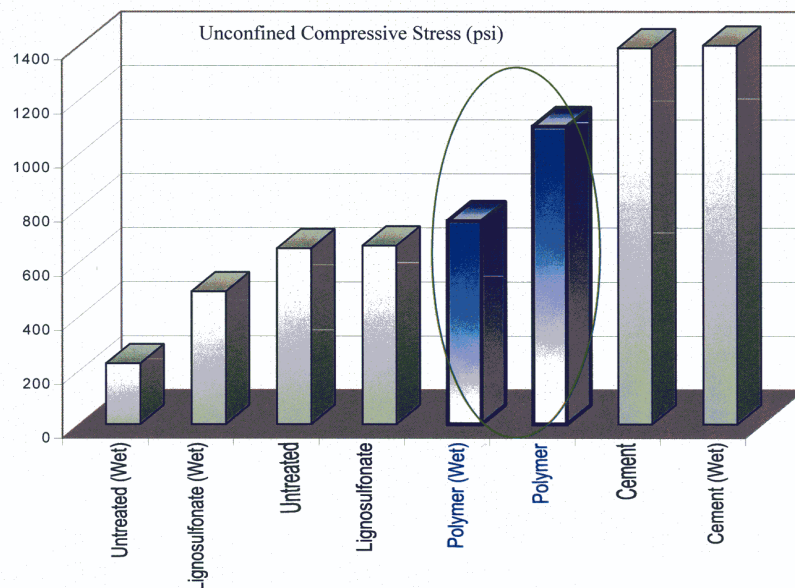
# Another Example:

**Midwest Industrial Supply, Inc.** participates in studies to develop performance data which allows you to evaluate our product, Soil-Sement®.



## Envirotac II®

Unconfined compressive stress chart  
between untreated soil, lignosulfonates, polymers and cement



Envirotac II® is a polymer.

Polymers (wet or dry) outperform lignosulfonates  
and are an effective alternative to cement

Source: "Nontraditional Stabilization of Silty-Sand," by Rosa L. Santoni, Jeb S. Tingle, and Steve L. Webster  
(U.S. Army Engineer Research and Development Center, Vicksburg, MS, August 01, 2001).

Envirotac II®

The Environmental Solution for Soil Stabilization (Dust & Erosion Control)

3/28/02

(Competitor Using Test Results Produced From  
Test of Soil-Sement® For Claim About Their Product)



**Midwest Industrial Supply, Inc.**  
makes performance claims based  
on the actual testing of Midwest  
products and not on misleading or  
imitative use of results achieved by  
reputable manufacturers.  
Soil-Sement<sup>®</sup> performance  
claims are Based on  
Soil-Sement<sup>®</sup> Testing.



**CALCERT**  
INNOVATION ASSURED

# Soil~Sement®

Dust and Erosion Control Agent



**SOIL-SEMENT®'S ETV CERTIFICATION PROTECTS AND BENEFITS YOU. THERE IS A GREAT DEAL MORE THAN MEETS THE EYE THAT IS EVALUATED AS PART OF THE SOIL-SEMENT® TECHNOLOGY CERTIFICATION.**

- Significant Reduction of PM<sub>10</sub> Emissions Claim is Verified.
- Environmental Impact Claims Verified.
- Health Claims Verified.
- Complete Evaluation and Review of All Test Methods and Protocols Used in Claims with Evaluation of Scientific, Statistical Accuracy of Conclusions.
- Company Required to Continuously Meet Requirements For Product Certification to Remain Valid.
- Company Required to Demonstrate Having Control Over the Manufacturing of the Product to Ensure Company can Consistently and Reliably Produce Product that Performs at Least as Well as the Product Used in the Testing and Certification.
- Company Quality Management Practices and Standards Reviewed and Certified.
- Company User Manuals and Application Documents Reviewed and Verified
- Company Policy and Procedure Manual for Personnel Training of Application Reviewed and Verified.



# California Environmental Technology Certification



Pursuant to the provisions of Section 39620 of the California Health and Safety Code

**Midwest Industrial Supply, Inc.'s**  
**Soil-Sement®**

is hereby recognized as a

## **CERTIFIED TECHNOLOGY**

with the following established level of performance

When topically applied as a dust suppressant in accordance with the manufacturer's instructions, including a target concentration of 0.28 gallons of concentrate per square yard of treated surface applied in multiple passes on a single day, Soil-Sement® reduced PM<sub>10</sub> emissions by approximately 84 percent after 339 days and 6,780 vehicle (predominantly light-duty) passes on an unpaved road consisting of a silty, sandy loam.

Soil-Sement® does not contain detectable levels of polycyclic organic matter which includes polycyclic aromatic hydrocarbons as defined by the Federal Clean Air Act section 112 (b); nor does Soil-Sement® contain detectable levels of fluorinated or brominated compounds that could be expected to contribute to ozone depletion or global warming.

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Certificate Number [02-02-059] became effective on April 11, 2002 for a period of three (3) years unless revoked in accordance with Section 91400 of Title 17 of the California Code of Regulations.



*Winston H. Hickox*

Winston H. Hickox  
Agency Secretary  
California Environmental Protection Agency



## ***Environmental Technology Verification Program***

— enhancing the credibility of environmental technologies

### **Soil-Sement®**

Midwest Industrial Supply Inc.'s Soil-Sement®, when applied in accordance with the manufacturer's instructions, will:

1. on unpaved roadways in California's San Joaquin Valley
  - a. achieve at least 95% suppressant efficiency on fugitive dust ( $PM_{10}$ ) for three months after application and at least 80% after 11 months, and
  - b. increase the R-value in the range of 30-40% when measured by ASTM Test Protocols D1883 and D2844, and calculated in accordance with the AASHTO Guide for Design of Pavement Structures, 1986; and
2. in acute toxicity tests, yield  $LC_{50}$ 's for rainbow trout (96-hr) and Daphnia magna (48-hr) of at least 7,000 ppm and 21,000ppm, respectively.

**Verified\***  
**Performance**  
**March 25, 1999**

License Number: ETV 99005

Issued to: Midwest Industrial  
Supply Inc.

**Canada**

John McMullen  
President & CEO



\* Refer to Technology Fact Sheet for additional information on the verification of this performance claim.

This Certificate **REALLY** is Important



Certificates of Verification  
Protect You  
and  
Protect Reputable  
Manufacturers