

CHEMICAL DUST SUPPRESSANTS

The U.S. EPA lists the use of chemical dust suppressants as one of the most effective Reasonably Available Control Measures (RACM) for long-term stabilization of fugitive dust sources. Currently, there are a variety of products which can be grouped into the general control measure category referred to as "chemical stabilization". The following is a partial listing of the product types which are currently available. Additional product types may also exist.

Product Type

Properties

Fiber-based dust palliatives	Pulp product consisting of wood or paper fibers
Calcium Chloride	Hygroscopic salt which absorbs moisture
Magnesium Chloride	Hygroscopic salt which absorbs moisture
Lignosulfonate	Wood pulp by-product
Petroleum resin	Pitch and rosin emulsion
Polymer	Long-chain chemicals with soil binding properties

The best type of product for fugitive dust control will be based on many site specific conditions including, but not limited to, type of soils, temperature, frequency of disturbances, wind conditions, and desired length of stabilization. Product vendors typically are able to describe the various products currently available as well as providing customers with an estimate of the amount of the product which would be necessary in order to achieve a **stabilized surface** for the desired period of time. In general, the greater the concentration of the product at the time of application, the longer the product will maintain a stabilized surface.

According to Rule 402, definition U, a **stabilized surface** is any disturbed surface area or open storage pile which is resistant to wind driven fugitive dust. An unpaved roadway is considered to have a stabilized surface when visible emissions from vehicles do not exceed 20 percent opacity. For compliance determination purposes, Rule 402 further defines wind driven fugitive dust as visible fugitive dust emissions generated by wind action alone.

Resource List of Vendors

The following is a list of chemical stabilization products and vendors. This resource list has been compiled from information provided to the District by various vendors, but there are likely to be additional products which are commercially available. **This resource listing is not an endorsement by the District to use any particular product.** It is the responsibility of each person who wishes to use a chemical dust suppressant to assure that such product will maintain a stabilized surface for the desired period of time and is not prohibited for use in fugitive dust control by the California Regional Water Quality Control Board, the California Air Resources Board, the Environmental Protection Agency, or any applicable laws. Also, such products should meet any specifications, criteria, or tests required by any federal, state, or local water agency.

Product Name**Vendor Contact**

A/F 2000
(organic compound)

American Fiber Company
Whittier
(310) 693-4072

Agri-Fiber
(organic compound)

Precision Hydroseeding Company
Palm Desert
(619) 360-2851

Airtrol Plaster
(cementitious binder)

United States Gypsum Company
Pleasanton, CA
(510) 460-9918

Asphotac
(asphaltic emulsions)

Asphotac, Inc.
Sutter Creek, CA
(209) 267-5072

Calcium Chloride
(hygroscopic salt)

Lee Chemical, Inc.
Moreno Valley, CA
(909) 369-5292

Hill Brothers Chemical Company
Orange, CA
(714) 998-8800

CohereX-PM
(petroleum resin)

Witco
Golden Bear Division
Sun Lakes, AZ
(602) 895-8966

DC-1000
(polymer)

Native Soil Technology, Inc.
Danville, CA
(510) 837-5362

Desert Bloom
(hydroseeding)

James Enterprises
San Juan Capistrano, CA
(714) 248-7236

Dust Buster Systems
(chemical suppressants and
application equipment)

Martin Marietta
Bakersfield, CA
(805) 663-0625

Dust Oil Emulsion
(asphalt emulsion)

Morgan Emultech, Inc.
Redding, CA
(916) 241-1364

Dust Sorb 1118
(acrylic resin)

Aqua Chem. Ltd.
Bakersfield, CA
(805) 323-8308

Dust Off
(brine solution)

Leslie Salt Company
Newark, CA
(415) 790-8169

Product Name**Vendor Contact**

Dust Oil Emulsion	SC Dust Control, LLC 130 E. Norris Road, Suite A Bakersfield, CA 93308 (805) 391-8357 (805) 391-9381 Fax
Eco-Polymer (polymer)	Eco-CF Polymer Ernie Schaefer 21599 Glenoak Pl. Tehachapi, CA 93561 (805) 822-3487
Ecology Control M Binder (co-polymer)	S & S Seeds Carpendaria, CA (805) 684-0436
Entac (organic emulsion)	Diversified Services, Inc. Elizabethton, TN (615) 542-9100
EnviroKleen	Midwest Indus. Supply, Inc. P.O. BOX 8431 Canton, Ohio 44711
Fiberwood (hydroseeding mulch)	Fiberwood Sacramento, CA (800) 655-9754
Fibercraft (hydromulch cellulose fiber)	Dynamis, Inc. Sanger, CA (209) 875-0800
Hardpath (polymer)	Water Enhancement Technology, Inc. Corona, CA (909) 278-5600
Hydro=Plant (hydroseeding)	Hydro=Plant, Inc. San Marcos, CA (619) 744-7360
Hydroseeder (Seed mixes and applications)	Sanders Hydroseeding, Inc. Santa Ana, CA (714) 973-8873
Lignosulfonate (wood pulp by-product)	Jim Good Marketing Shafter, CA (805) 746-3783 ITT Rayonier Seattle, WA (800) 228-0604

Product Name**Vendor Contact**

Magnesium Chloride
(hygroscopic salt)

Western Spreading & Transportation, Inc.
Escondido, CA
(909) 784-7411

Magnesium Chloride
(hygroscopic salt)

Western Emulsions, Inc.
Moreno Valley, CA
(909) 784-7411

Magnesium Chloride
(hygroscopic salt)

South Western Sealcoating, Inc.
Murietta, CA
(909) 677-6228

Jim Good Marketing
Shafter, CA
(805) 746-3783

Chemical Distributors, Inc.
Henderson, NV
(702) 565-4904

Compaction Compounds
Los Altos, CA
(415) 948-5900

Marloc
(co-polymer)

Reclamare Company
Seattle, WA
(206) 824-2385

Native Seed Mix
(hydromulch)

Pacific Coast Seed, Inc.
Pleasanton, CA
(510) 463-1188

Organic Soil Stabilizer
(soil additive)

Desert Rock Supply
La Quinta, CA
(619) 360-1345

Pennzsupress "D"
(water-emulsified resin)

Jim Good Marketing
Shafter, CA
(805) 746-3783

Road Oyl
(pine tar)

Soil Stabilization Products
Merced, CA
(209) 383-3296

Sentinal
(organic binder-hydroseeding)

Albright Seed Company
Camarillo, CA
(805) 484-0551

Precision Hydroseeding Company
Palm Desert, Ca
(619) 360-2851

Product Name**Vendor Contact**

Soilmaster
(polymer)

Environmental Soil Systems, Inc.
Granada Hills, CA
(818) 368-4115

Soil Seal
(polymer)

Soil Seal Corporation
Los Angeles, CA
(213) 727-0654

Soil Seal
(polymer)

Soil Stabilization Products
Merced, CA
(209) 383-3296

Soil Sement

Midwest Industrial Supply
Canton, Ohio
(800) 321-0699

Terrafirma
(polymer)

AET Group
San Leandro, CA
(209) 836-4884

Terrazyme

Inland Empire International U.S.A.
37045 Industrial Way
P.O. BOX 8248
Hemet, CA 92545
(909)766-0395
Fax: (909) 929-2435

Top Shield
(copolymer)

American Highway Technology, Inc.
W.A. Dillon, Dir. of Oper.
5105 Granite Street
Bakersfield CA 93313
(805) 831-2138