

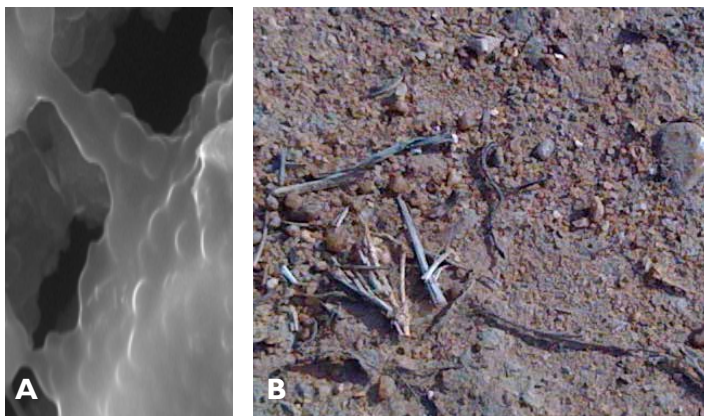
TerraHold 401[®]

for Dust Control, Erosion Control, and Soil Stabilization

Product Description

TerraHold 401 is a multiuse soil stabilization product that can be used both as a soil hardening agent and for dust control. It works well with sandy soils and gravel in environments that don't require resistance to frequent rains or exposure to water. A 2% solution can increase the compressive strength of graded gravel to over 2,000 psi.

Soil stabilization is achieved by blending powdered TerraHold 401 into the soil and adding water prior to compaction. It can also be dispersed in water and applied topically for dust control or applied as a surface treatment for wind, rain, and erosion control. The stabilized material creates a hardened surface matrix that maintains some flexibility after drying. This allows thicker applications to withstand heavy loads without cracking or breaking. TerraHold 401's formulation provides acceptable water resistance suitable for intermittent rain conditions.



A: Soils and aggregate stabilized with TerraHold 401 are bound together on a microscopic scale by the coalesced polymer bonding the soil or gravel particles together.

B: TerraHold 401 is most effective with sandy soils and gravel in arid to semi-arid conditions. This photo was taken on a sloped road bed 6 months after application.

TerraHold 401 is a soil stabilizer that is most effective with sandy soils or gravel in arid to semi-arid conditions.

Use Guide

TerraHold 401 mixes easily with water and can be applied using a low-pressure sprayer. It requires no special equipment and cleans-up quickly with water immediately following use.

Uses include, but are not limited to:

- Dirt roads, unpaved paths
- Erosion control, hillside stabilization, and excavation stabilization
- Earthen hardstands and gravel areas where a hardened, water repellent surface is needed
- Dust and Wind Erosion Control
- Waste Containment

Application	Expected Traffic or Conditions	Recommendation
Soil Stabilization	Light Foot	•••
	Heavy Foot/ Light Wheel	•••
	Medium Wheel	•••
	Heavy Wheel	••
Wind Erosion Control	Airport Runway	••
	Sloped Embankments	••
	Horizontal Surfaces	••
Rain Erosion Control	Pile Capping	••
	Sloped Embankments	•
	Horizontal Surfaces	•
	Pile Capping	•

Legend: • light duty •• medium duty ••• heavy duty

Properties

TerraHold 401 is a copolymer powder of vinyl acetate and ethylene.

TerraHold 401 contains fine mineral filler as an antiblocking agent and is free of solvents, plasticizers and film-forming agents. All chemical ingredients have use approvals from multiple countries, including Canada.

- All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. TSCA SECTION 8(b)
- This material does not contain any components that are subject to the U.S. Toxic Substances Control Act (TSCA) SECTION 12 (b)
- This material is not classified as hazardous under the criteria of the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200

Application Methods

Soil Stabilization can be achieved by mixing dry powdered TerraHold 401 into soils at a depth of 4" or greater. Concentration of product will vary depending on the type of soil. Water is then added to reach the optimal moisture content, and the soil is compacted to achieve maximum compaction density. Once dry, TerraHold 401 will achieve an increased compressive strength 3 to 3.5 times greater than untreated soil.



Severe erosion control can be managed with treatments ranging from 1/2" to 2" in depth.

Erosion Control: Dilution rates for mixing the product in water range depending on the soil's weight. Consult with your L&Q Representative for this information. Once completely dispersed, spray the solution onto the soil's surface or mix into soil, depending upon severity of the erosion and depth of penetration required. TerraHold 401 can be mixed into the soil 1"-2" using a light tiller followed by wetting and compacting the treated area.

The product requires no special equipment and only minimal clean-up time with water if done immediately following its use.

Application rates for **dust control** or for surface abrasion resistance depend on the type and frequency of traffic the surface will be subjected to. This is generally a topical application. An additional application that is 10% by weight of the diluted solution (note that water's weight is 8.2 lbs per gallon) is evenly sprayed on the stabilized surface until it is evenly dampened without ponding. TerraHold 402 mixes easily with water and can be applied using a low-pressure sprayer (25-30 psi).

More detailed information on application methods and usage rates for the various uses listed above are contained in L&Qs Process sheets which can be found at www.l-q-international.com.

Product Consumption

TerraHold 401 is shipped as a dry powder allowing reduced transportation costs. This also provides greater application flexibility and assists in reaching optimum soil moisture content. TerraHold 401's formulation allows it to be diluted and applied with non-potable water.

Storage

TerraHold 401 should be stored in a cool place and protected against moisture. Since the product is thermoplastic, it should not be subjected to pressure or high temperatures during storage because of the risk of caking. Storage time should not exceed 6 months from receipt of delivery.

Packaging

20 lb. containers

Additional information

For use of TerraHold 401 in applications other than those described, the choice, processing, and use of TerraHold 401 is the sole responsibility of the purchaser. All regulations must be complied with.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, however, the properties required for the intended use must be checked to insure quality.

Product Data

Specification Data	Inspection Method	Value
Solids Content	DIN EN ISO 3251	98-100%
Bulk Density	DIN EN ISO 60	490-590kg/m ³

Typical general characteristics	Inspection Method	Value
Appearance	Visual	White to pale yellow powder

The data presented in this leaflet are in accordance with the present state of our knowledge. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

For technical, quality, or product safety questions please contact:

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L&Q provides a suite of cost-effective soil products and solutions that address critical infrastructure needs.