

Systems, products and know-how for a better environment

Stabilpave®

ECOFRIENDLY STABILIZATION OF CYCLE PEDESTRIAN LANES AND ROADS

Cycle lanes
Pedestrian paths
Parking lots
Drive roads

Eco friendly paving solutions



Stabilpave®

ECOFRIENDLY STABILIZATION OF CYCLE PEDESTRIAN LANES AND ROADS

Liquid Ecofriendly product to create

natural surfaces such as *roads*, *parking lots*, *cycle paths* and *walkways* inside parks and areas subjected to environmental constraints such as SCI, SPA and SAC, as well as for dust control on aggregates and coal piles.

Stabilpave[®] is a strong acrylic co-polymer (polymer emulsion) that is diluted with water for application and used for dust and erosion control, and soil stabilization.

Stabilpave[®]'s long chain of polymer molecules penetrates the surface forming a strong hardbound surface. It will create a bonded yet pliable surface stopping particles of dust such as PM10 and PM2.5 from entering the air. It is white in appearance when applied but dries clear keeping the natural aesthetics of the surface.

Stabilpave[®] consists of a sustainable flexible pavement system utilizing non-petroleum based emulsions being incorporated into suitable in-situ soil or fill material. It creates an engineered stabilized layer with unique superior strength for roadways: 5-6cm for cycle pedestrian lanes and 9-10cm for drive roads. Once incorporated into the soils, **Stabilpave**[®] creates an elastic and resistant soil or material matrix that increases the strength of the treated soils. Soil or material matrix transforms subpar in-situ material will create a superior surface that will increase load bearing capacity while requiring minimal maintenance.



STABILPAVE® BENEFITS

- Significantly reduces particulate matter (PM10 & PM2.5)
- Longer-term road performance
- Smooth, dust-free running surface over long periods of time
- Superior traction and increased roadway loading capacity
- Stabilizes surface to resist shifting, breaking up and sink failures
- Offers maximum weather ability to wind, rain ultraviolet light and other weather conditions
- Uses native in-place soils
- Unstable, unpaved roads rehabilitated
- Washed aggregate not required
- Does not alter the permeability and the natural color of the aggregates
- Cost-effective alternative to asphalt
- Produces lighter surfaces that do not absorb heat
- Employs green products harvested on a sustainable basis
- It is water-soluble
- No post-installation sweeping



Drive road with a slope greater than 20%







ENVIRONMENTALLY FRIENDLY

Choosing the right product for an application is more than picking the product with good or sufficient dust control efficiency.

It means evaluating the application and understanding all the needs of the customer including environmentally sensitive areas, regulatory constraints, aesthetics, customer preferences, operational or process concerns, and climate.

All testing shows **Stabilpave**[®], when applied properly, **will not negatively impact soil or water quality in terms of toxicity**.

Both in the private and public sectors road engineers are faced with tightening budgets and increased environmental compliance challenges.

Environmental regulations demanding dust and sediment control for unpaved roadways and shoulders continue to tighten.

Our innovative soil stabilization approach to road con-

STABILPAVE®:

- is non-toxic
- is non-corrosive
- is non-flammable
- does not pollute soil and water
- is made of green and sustainable components safe for vegetation and wildlife
- does not increase the alkalinity or acidity level of the soil

struction uses alternative binders to engineer sustainable and durable pavement out of native soils.

Our road building experts work to understand your requirements and the composition of the native soils on site to deliver an optimal road building program in terms of cost, strength (2), and timeline.

Our technologies allow us to build stronger roads at shallower depths than any other approach, which means your road budget will stretch further than you imagined.

STABILPAVE® MANUAL APPLICATION PROCESS - CYCLE PEDESTRIAN LANES





STABILPAVE® MIX IN PLACE STABILIZATION PROCESS - ROADS



STABILIZATION PROCESS WITH PAVING MACHINE - ROADS





HOW DOES STABILPAVE® WORK?

Nanotechnology enables our scientists to control matter on an atomic and molecular scale.

Stabilpave[®]'s effectiveness results from the length and strength of its unique polymer molecule formulation, which enables molecules to bond well with surface materials.

Its molecules link to one another in relatively straight chains, which cross-link with other chains or grids forming a matrix that may be 1,000,000 molecules long.

This structure creates surfaces that are stronger and more flexible than the smaller molecular structure of oil, calcium, petroleum resin and asphalt emulsion products, which range from 100 to 10,000 molecules.



- A DIFFERENT KIND OF MOLECULE
- A MOLECULAR FIBERS
- **B** SOIL PARTICLES



The details show the difference between the fine matrix bonded with Stabilpave® (PICTURE 1) and the free fine matrix (PICTURE 2)



Rely on a Certified and Engineered Solution!



FINE AGGREGATE AND COAL STOCKPILES

Stabilpave[®] is capable of controlling fine aggregate and coal pile dust emissions and preventing slope erosion, moisture penetration and oxidation.

Its product technology and application are unique and at the forefront of improving performance and profitability by positively affecting stockpile performance.

Stabilpave® has the unique ability to eliminate fugitive dust and airborne particles because it chemically bonds and seals the surface to prevent wind from lifting fines and creating dust.

It seals water out and prevents hot spots. It can penetrate, saturate, and bond surface dust and aggregate together and "cement" this to the base to create a hard, dust-free and water resistant surface.

Stockpiles are not exposed to the erosive action of the atmospheric agents, so the particles of dust such as PM10 and PM2.5 are controlled and the air quality is improved.





Stabilpave® ECOFRIENDLY STABILIZATION OF CYCLE PEDESTRIAN LANES AND ROADS



PARKS AND GARDENS



PARKING AREAS







DRIVE ROADS





fullservice-it.com

Via Enzo Ferrari, 6 - 35046 "Saletto" Borgo Veneto (PD) Italy T +39 0429 841181 - F +39 0429 841182 - info@fullservice-it.com

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