

Acrylic Copolymer Soil Stabilizer

DESCRIPTION • *SoilCrete PA* is a ready-to-use, water-soluble, biodegradable, synthetic polyvinyl acetate acrylic copolymer emulsion. *SoilCrete PA* is provided in concentrated form and applied to the soil for stabilization and dust control.

USES • *SoilCrete PA* is provided in concentrated form and diluted with water on site. The low viscosity liquid is then either mixed in with the soil or applied topically to the surface. Mixed in, *SoilCrete PA* is used to reduce erosion and stabilize the soil for an increased load-bearing strength and reduced freeze-thaw heaving. Applied topically, *SoilCrete PA* adheres dust particles to the ground, thereby reducing dust. *SoilCrete PA* is suitable for use on heavy haul roads, construction sites, light aircraft runways, helipads, unpaved dirt roads, event parking lots, road shoulders and medians, and military camps. Mixed with crushed limestone, crushed marble or decomposed granite, *SoilCrete PA* creates attractive natural-looking pathways for parks, residential, and commercial applications.

ADVANTAGES

- ✓ Eliminates dust-related illnesses and problems.
- ✓ Environmentally friendly and biodegradable.
- ✓ Ready to use and easy to apply.
- ✓ Low viscosity when diluted with water.
- ✓ Dries flexible, non-tacky and transparent.
- ✓ Non-volatile, non-hazardous, and odorless.
- ✓ UV ray and water resistant.
- ✓ Non-corrosive.

PHYSICAL PROPERTIES

Solid Content (undiluted)	34%
Viscosity (undiluted)	50 mPa·s
Particle Size (µm)	0.06

LIMITATIONS • Not effective if graded through. Not recommended for tracked vehicles. Requires time to cure and harden. Must be stored in sealed container at above-freezing temperatures.

COVERAGE • Application rate of *SoilCrete PA* depends on the desired performance and the soil type, CBR value, moisture content, and weather conditions. Below is a rough guide to recommended applications rates; trials should be conducted to confirm the proper application rates and their suitability for the intended use.

Topical (Spray-On) Application Rates:

Spray-on application is usually used only for non-trafficable areas as a way to control dust and erosion. A typical application rate is 2.5 m²/l at a mixing ratio of 1-part *SoilCrete PA* concentrate to 6-parts water by volume.

Full Depth Mix Application Rates:

For trafficable areas *SoilCrete PA* must be mixed into the soil and compacted; *SoilCrete PA* may be diluted with water at a maximum ratio of 1-part *SoilCrete PA* concentrate to 6-parts water by volume.

Foot Traffic/Cart Path	2-3 L/m ² @ 10 cm thickness
Vehicular - Light	3-4 L/m ² @ 15 cm thickness
Vehicular - Heavy	3.5-4.5 L/m ² @ 20 cm thickness

The above are intended only as general guidelines and could vary significantly depending on soil type and composition, California Bearing Ratio (CBR) test, moisture content, and axial loading conditions.

MIXING • *SoilCrete PA* is provided in concentrated form and must be diluted with water on site as necessary. Use only clean potable water. *SoilCrete PA* may be diluted with water to a maximum ratio of 1:6 by volume.

APPLICATION • *SoilCrete PA* may be applied topically to the top surface of the soil or mixed in. Topical applications are used for dust and erosion control only. Application is carried out using water trucks, distributor trucks, static tank with pump and hose, or airless spray.

Mixing-in is used for base hardening and strengthening for increased load-bearing capacity on trafficable areas. Mixing-in may be carried out by a road grader, tractor & disk, compactor, and/or rototiller.

CLEANING • Clean all tools and equipment promptly with clean water.

STORAGE & SHELF LIFE • Store in a sealed container away from direct sunlight and at above-freezing temperatures. Shelf life is 12 months from date of purchase.

PACKAGING • 20 L pail or 1,000 L IBC.

Creative Concrete Concepts

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