

PRODUCT INFORMATION:

CPx 2900 Series COPOLYMER RESIN SOIL-STABILIZER Solution

DESCRIPTION: A.R. Smith's CPx 2900 Series is a water-based, Vinyl Acrylic Copolymer Emulsion which when dried will polymerize, tending to bind particles of soil, rock, wood and other materials.

APPLICATION USES: used as a soil stabilizer for:

- roadways and road base construction
 - Create a light duty road-surface and base from in-situ materials
 - Base stabilization
 - Dust control
- landscape uses such as
 - path surfaces
 - wind and water erosion control
 - and as a hydroseeding tackifier.

SHIPPED: Typically in disposable 55-gallon fiber barrels with easy-open, resealable lock rings.

DILUTION: With water in ratios between 5:1 and 20:1, depending upon application and environment.

SAFETY AND HANDLING: No special handling requirements. Product is very safe. Ships as an unclassified, non-hazardous material. Passes EPA recommended TCLP leachate test, showing no detectable VOC's. Stock can be retained over several seasons and remain in suspension.

GENERAL APPLICATION SUMMARY: Apply during dry weather window. Dilute with water and apply to soil or aggregate per Application Protocol and/or mix design. Compact if desired for higher load-bearing capability.

CAUTIONS: Product cannot freeze during handling. Do not store above 120 degrees F. Product must dry to begin polymerization. Product polymerizes at 45 degrees F and above, therefore application temperature should be above that for a good portion of the day of application and several days thereafter. Nighttime temperature can dip below this level. Dry conditions are best.

EQUIVALENTS: PX-300 Part A - Basic resin solution.

QUALITY AND EFFECTIVENESS: CPX Copolymer is our generic version of the same base product utilized in a number of competitive offerings. In our testing and usage we find the generic performs as well as (and in some cases, even better than) competitive products containing unspecified proprietary additives. Most importantly, offering the generic product allows us to price this product at the very best level possible for our customers. This product is manufactured in a state of the art ISO 9000 blending facility. Our product is shipped full-strength. No additional water or unpredictable additives are added. Quality and concentration levels are assured.

SOURCE:

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CAPSULE SUMMARY:

CPX is a special blend of aqueous polymer emulsions which has the ability to bind soil particles, making the soil resistant to wind and water erosion. The product is white in color, but will turn transparent as it dries. It therefore does not give an industrial look to native soil. This quality makes it effective for nature trails, or for application where a natural look is desirable. Gravel roads and wilderness roads will retain their original

coloration, but will be durable, impervious to water, and able to carry heavy loads. CPX is entirely non-polluting, and environmentally safe. It is non-toxic, non-carcinogenic, non-flammable, and non-combustible. It can be safely used for hydroseeding. A mixture of the product and water, after application and compaction, produces a permanent, durable, road base that is far superior to inorganic or petroleum-based products. The resulting surface can be used as a secondary road or dressed with chip-seal to provide a multi-year, low maintenance roadway – often with significant cost-savings.

Exhibit:

A.R. Smith’s CPX meets or exceeds FHWA (Fed. Hwy Admin) requirements for polymer binder:

FHWA Project MATERIALS Requirements and CPX.

33.02

MATERIALS

A) COPOLYMER EMULSION. Use a copolymer emulsion product which conforms to the requirements shown in the table below.

Dimension:	Requirement	CPX 2900 Series Generic
Primary Component:	Acrylic Copolymer	Acrylic Copolymer
Unconfined Compressive Strength of Emulsified Polymer Treated Aggregate: (AASHTO T-208)	400 psi, Minimum 800 psi, Maximum	Up to 1250 lb UCP
Permeability	1.0 x 10 ⁻³ cm/sec. Minimum	Meets
HMIS Hazard Rating:*	1 or less for Primary Polymer Component 2 or less for Any additives and/or wetting agents	Meets (=1)
Environmental:	Non-toxic** Non-Carcinogenic** Non-combustable (when in solution) Non-flammable (when in solution)	Meets TCLP req’s: No detectable leachates per 3/12/02 ARI Lab test

* HMIS is a registered trademark of the National Paint and Coatings Association.

** Cured polymer mix produces no detectable leachates which are toxic or carcinogenic. (Per TCLP test for Volatiles)