



# PRIME X

waterborne epoxy system

An advanced hybrid polymer coating incorporating state of the art waterborne technology. This product exhibits superior corrosion, chemical and abrasion resistance without the drawbacks associated with solvent reduced epoxies. -Low VOC, low toxicity, and low odor combined with the performance profile of conventional solvent-borne 2-pack epoxy finishes. Designed as a general purpose high performance coating to be used on a variety of substrates.

It is no longer necessary to endure the odor, toxicity exposure and fire hazards of typical solvent-borne 2 pack epoxy finishes to obtain the unique performance characteristics of such finishes.

Through the use of PrimeX, the combination of high performance and low hazard application can now be achieved.

### Benefits:

- Long Pot-Life
- Rapid Low Temperature Property Development
- Improved Durability - yellowing resistance, fade resistance.
- Low Odor - reduces the need to relocate personnel during paint application.
- Low VOC - allows applicators to conform to government regulations.
- Excellent resistance to chemicals, staining & solvents.
- Easy water clean-up.
- Recommended top coats: Solventborne & 100 solid epoxies.  
Urethane and polyaspartic top coats.

### Properties:

Volume Solids,%	67
VOC g/l	1.38
Gloss	Flat
PH	8.5
Adhesion, steel	XoYo
Adhesion, Concrete	Concrete Failure
Impact Resistance	30 Direct, 10 Reverse
EIS 9	
Recommended Thickness	6.7-13.4 mils dry, 10-20 mils wet
Theoretical Coverage	670 mil/sq/ft/gal.
Method	Brush, roll, spray
Induction Time	none
Thinner	water

## APPLICATION CONSIDERATIONS:

### General

Application is critical to the success of high performance coatings. It is imperative that the proper choice of equipment be made, that the proper technique in using the equipment be followed, and also that the equipment be properly cleaned. PrimeX can be applied directly to most conventional coatings with no need for an intermediate coating. This allows the user to upgrade the chemical and solvent resistance of a surface with no fear of lifting or poor adhesion to old coatings. Induction Time: None

### Application

Drying Time (hrs.)	73°F
Phase II	2.2
Phase III	6.5
Pot Life	2

**Limitations:** Apply in good weather when air and surface temperatures are above 50°F. Unmixed material (in closed containers) should be maintained in storage between 50 and 100°F. Keep from freezing.

### Surface Preparation:

Paint only clean, dry surfaces. Remove all grease, oil, dirt or other foreign matter by solvent or detergent washing.

### Unpainted Surfaces:

Apply one or more coats of PrimeX as required.

### Previously Painted Surfaces:

Remove all rust, rust scale, other corrosion products, loose or heavy chalk and loose or scaling paint by "Hand or PowerTool Cleaning" (SSPC-SP-2 or 3). Sand or brush blast any glossy areas until dull. Spot prime bare areas as recommended and apply one or more coats of PrimeX as specified. Check compatibility by applying coating to a representative area and allow to cure and age. Then make cross-hatched cuts through the coating and check adhesion by firmly applying masking tape to cross-hatched area and removing with a fast pull. If the coating remains intact and there is no wrinkling, lifting, blistering or any other sign of incompatibility present, coating work may then proceed.

### Mixing: 4B:1A by volume.

Material is supplied in 2 containers as a unit. Always mix a complete unit as supplied. Combine entire contents of Part A and Part B and mix thoroughly with a Jiffy mixer or equal.

### Thinning:

Material is supplied at spray viscosity and normally needs no thinning. Thin only with amount necessary to obtain proper application and/or atomization (break-up) properties.

### Application:

Apply by conventional or airless spray. Thoroughly flush equipment with water prior to using. To obtain maximum edge protection and film build, conventional or airless spray is recommended. Application by other methods, brush or roller recommended. Pilgrim PrimeX applied at 10.0 mils wet will yield 6.7.0 mils dry film thickness.

### Equipment:

Roller: Short nap roller cover.

Conventional Spray: DeVilbiss MBC-510 gun; E tip and 704 air cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator. Airless Spray: minimum 28:1 ratio pump; .013" - .017" orifice tip; 1/4" ID teflon material hose; 90-100PSI line pressure.

**Safety:** Adequate health and safety precautions should be observed during all storage, handling, use and drying periods. For safe usage, user is specifically directed to consult the current "Material Safety Data Sheet" for this product. When using this product in a confined space or closed area, consult the current OSHA, or ANSI bulletins on safety requirements.

# PRIMEX

## Chemical / Solvent Resistance

ACIDS		SOLVENTS		ALKALIES	
Solution	Rating	Solution	Rating	Solution	Rating
Acetic 3%	LR	Ethanol	R	Sodium Hydroxide 18.5%	R
Acetic 10%	NR	Isopropyl Alcohol	R	Sodium Hydroxide 37%	R
Citric 10%	R	methanol	R	Ammonia (household)	R
Hydrochloric 18.5%	R	Gasoline	R	TSP 1%	R
Hydrochloric 37%	LR	Diesel fuel	R		
Nitric 18.5%	LR	Mineral Spirits	R	OTHER	
Nitric 37%	NR	Xylene	R	Solution	Rating
Sulphuric 10%	R	Cyclohexanone	NR	Detergent Solutions	R
		VM&P	R	Formaldehyde	R
		MEK	NR	Gasoline	R
		Chlorinated Solvents	NR	Diesel Fuel	R
		Ethylene Glycol	R	Motor Oil	R
		Glycol Ether	R	Vegetable Oil	R
				Urea 50%	R
				Brake Fluid	LR

## Corrosion Resistance

Electrochemical Impedance Spectroscopy (EIS)

