

# DX-4400

## Product Data

### Ultra Clear, High Strength Sealant & Coating



**DX-4400 Protected**

#### PRODUCT PROFILE

DX-4400 is a high grade, 100% solids, novolac epoxy with UV protection additives that offer long term non-yellowing protection with non-blushing and non-chalking properties. DX-4400 is a specially formulated 2- component epoxy system with a modified cycloaliphatic amine curative. DX-4400 adheres to wood, fiberglass, metal, stainless steel, concrete, stone, canvas, glass and virtually any surface with 13,500 psi strength. DX-4400 preserves the substrate with an ultra-clear, scratch resistant finish while remaining flexible enough to withstand vibration and expansion/contraction. DX-4400 combines a UV absorber coupled with a hindered amine light stabilizer which inhibits degradation of the product from sunlight and protects the exterior with a glossy, glass-like finish that will endure heavy traffic and extreme conditions. DX-4400 bonds chemically and mechanically to the substrate and can be blended with dyes, silica, sands, wood flowers, pebbles and other materials. DX-4400 forms a polished, highly durable, wear resistant surface and is unaffected by saltwater, fuel, oil, and mild acids while exhibiting long term corrosion proof and chemical resistance protection. DX-4400 is used for boat building, fiberglass fabricating, wood working, bar top finishing, restoring piers and decks and many other applications.



**Deteriorating due to Weather**



**Leaking and Corroding**

#### PRODUCT FEATURES & BENEFITS

- *Permanently restores and protects wood surfaces with a clear finish.*
- *Seals leaks by infusing within and encapsulating the surface to provide a durable, scratch resistant exterior.*
- *Seals leaks and refurbishes cooling towers, docks, decks and any wood structure.*
- *Industrial strength, marine grade epoxy designed for boat construction, repair and surface coating.*
- *Ultra clear, cutting edge UV stabilizers.*
- *Ideal for all wood, fiberglass, metal, stainless steel, concrete, stone and canvas surfaces.*
- *Easy 2 to 1 mix ratio (2 parts resin to 1 part hardener).*
- *Can be applied by brush, roller or sprayer (45:1 airless or higher).*
- *100% solids, free of volatile organic compounds– environmentally friendly.*

# DX-4400

## COMPONENTS

DX-4400 is composed of a 1 part resin to 2 part hardener and is supplied in 1.5, 3, 6, and 15 gallon kits. Drums and totes are available for larger applications and distribution.

DX-4400 resin is a 100% solids no VOC, 2-component, self-leveling, self-priming, low odor, non-blushing epoxy that provides a sufficient work life, rapid track free time and high adhesion to aggregates and pavements. Each kit includes both pre-proportioned resin (part A) and hardener (part B) which are mixed at 2 parts resin to 1 part hardener by volume. To use, part B is added to part A and then mixed immediately prior to use.

VOC = 0 g/l. The following are properties and specifications for DX-4400:

## PHYSICAL PROPERTIES

PROPERTIES	TYPICAL	TEST METHOD
Components	A- resin, B- hardener	
Mixed Density, lbs./gal. (kg/l)	9.2 (1.02	
Mix Ratio	2/1	
Color	clear	
Gel Time, 100 grams, minutes	35	ASTM D2471
Application Temperature, °F (°C)		
Ideal	70-80 (21-27)	
Acceptable	50-95 (10-35)	
Coverage*, ft <sup>2</sup> /gal (m <sup>2</sup> /L) @20mils	80	
Compressive Strength psi	13,500	ASTM D695
Tensile Strength, psi (MPA)	7503	ASTM D638
Elongation at Break, %	6	ASTM D638
Hardness, Shore D	85	ASTM D2240
Adhesion Strength @ 24hrs psi to concrete - 780		ASTM D4541
Flexural Strength psi	12,800	ASTM D790

**DX-4400**

Water Absorption @24hrs., %	<0.10	ASTM D570
Thermal Compatibility	pass	ASTM C884
VOC g/l	0	

*\*Varies with surface porosity and texture.*

**INSTALLATION**

Installation of DX-4400 is summarized as follows. The 2 components of DX-4400 are mixed, and then uniformly applied at the desired thickness - typically 20 mils to the cleaned and prepared surface. DX-4400 should be cured at a minimum of 3hrs at 77°F before contact.

**CLEAN-UP**

Use a mixture of MIBK and Butyl Acetate (50/50) or MEK for cleanup. Skin may be cleaned with denatured alcohol, preferably ethanol.

*\*Refer to the MSDS for further information.*

**DYNESIC TECHNOLOGIES**

Dynesic Technologies produces exceptional chemically engineered coatings, adhesives and sealants offering premium corrosion protection, while being safe for the environment and entirely user friendly. Dynesic Technologies can be found protecting steel, ductile and concrete substrates worldwide.



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