



DuroPro Engineered Products

DUROPATCH 3000 XCT

EXTRA COLD TEMPERATURE

DESCRIPTION

DUROPATCH 3000 XCT is a 100% solids epoxy floor topping designed for cold temperature applications commonly found in food and beverage processing facilities. The DUROPATCH 3000 XCT system consists of a two-component resin binder and graded aggregate. It is applied with a trowel or screed rake at 1/8 -1/4 inches (125-250 mils) in a one coat application including a silica broadcast. There is no need for a primer or sealer coat. An optional glaze coat may be used to improve the appearance and cleanability.

The vertical formulation of DUROPATCH 3000 XCT is trowel applied at 1/8 inches (125 mils).

FUNCTION

The primary use of DUROPATCH 3000 XCT is as a high strength floor topping for industrial service where severe mechanical abuse and/or chemical exposure is anticipated and where application temperatures between 32 deg. F. and 45 deg. F. are encountered. Typical applications include food processing plants, breweries, laboratories, chemical processing plants, waste disposal facilities, pulp and paper mills, refineries, mines, chemical storage areas and other industrial processing areas where chemicals are used.

FEATURES

DUROPATCH 3000 XCT is a 100% solids system and allows for a fast application where good chemical and wear resistance are required. DUROPATCH 3000 XCT can be installed over most sound floors including old or new concrete, steel and most types of repair mortars. At varying thickness up to 1/4 inches, the

DUROPATCH 3000 XCT system provides long term chemical resistance for splash and spill or immersion in many chemicals. (For specific recommendations refer to the DUROPATCH 3000 ("Chemical Resistance Guide") As with all DuroPro systems,

DUROPATCH 3000 XCT provides excellent physical protection even in the harshest industrial settings. The physical properties of DUROPATCH 3000 XCT are many times those of standard concrete.

OTHER FEATURES INCLUDE

- Rapid cure, resulting in minimal "downtime"
- 100% non-porous
- Odor free
- Non-skid safety finish
- Can be applied in temperatures between 32 and 50 deg. F.

TYPICAL PROPERTIES

Solids, by Volume 100 %

DUROPATCH 3000 XCT

Compressive Strength

ASTM C579-82 14,000 psi

Flexural Strength

ASTM C580-85 4,000 psi

Tensile Strength

ASTM C307-83 2,000 psi

Bond Strength Failure in
To Concrete Concrete

ASTM D4541-89

Taber Abrasion 25 ms loss/1000
ASTM C501-80 cycles w/1000 gms.
CS-17 Wheel

Water Absorption +0.10%
ASTM C413-93

PACKAGING and COVERAGE

DUROPATCH 3000 XCT is available in 20, 100, and 1000 square foot units based on ¼ inch applications. Each unit consists of pre-measured components, Part A (Resin) and Part B (Hardener). Graded aggregates are available or may be sourced locally.

CURE TIME

The cure time of DUROPATCH 3000 XCT and other resinous systems are very dependent upon the temperature of the substrate. The ambient temperature may not be the same as the substrate temperature. For example, during winter, concrete may be colder than the surrounding ambient temperature. As temperatures during the day increase, large masses of concrete will be much slower to react. During summer days direct sunlight will increase the concrete temperature over that of ambient air. The substrate temperature should be monitored and remain at or above 45° F.

Service (hours)	35°F	45°F	55°F
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Foot Traffic	12	8	4
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DUROPATCH 3000 XCT

Light Chemical	12	10	10
Forklift	24	16	12
Heavy Chemical	7days	6days	3days

MIXING and APPLICATION

For mixing and application information, please refer to the DUROPATCH 3000 XCT Brochure.

STORAGE and SHELF LIFE

DUROPATCH 3000 XCT should be stored at 35°-55° F for 24 hours before use, otherwise store between 45°-90° F. All containers should remain unopened until ready for use. If stored as set out above, DUROPATCH 3000 XCT has a minimum shelf life of one year.

WHERE DUROPATCH 3000 XCT SHOULD NOT BE INSTALLED

DUROPATCH 3000 XCT should not be applied over substrates:

- Subject to hydrostatic pressure.
- Unsound structures.
- Contaminated substrates which cannot be cleaned.
- Which are wet during application.

SAFETY

DUROPATCH 3000 XCT contains blended Epoxies as the resin and blended Amines as the hardener. Protective clothing and gloves are recommended to prevent sensitization to these materials. In case of ingestion or eye contact, it is advisable to contact a physician immediately. MSDS are available for this product upon request.

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