



## DuroPro Engineered Products

# DUROPATCH 3000 CT

## COLD TEMPERATURE

### **DESCRIPTION**

DUROPATCH 3000 CT is a 100% solids epoxy floor topping designed for cool temperature applications commonly found in food and beverage processing facilities. The DURAPATCH 3000 CT 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 DURAPATCH 3000 CT is trowel applied at 1/8 inches (125 mils).

### **FUNCTION**

The primary use of DUROPATCH 3000 CT 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 45 deg. F. and 65 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 CT is a 100% solids system and allows for a fast application where good chemical and wear resistance are required. DURAPATCH 3000 CT 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 DURAPATCH 3000 CT 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 DUROPATCH systems, DUROPATCH 3000 CT provides excellent physical protection even in the harshest industrial settings. The physical properties of DURAPATCH 3000 CT 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 45° and 65° F.

### **TYPICAL PROPERTIES**

Solids, by Volume 100 %

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Compressive Strength

# DUROPATCH 3000 CT

ASTM C579-82 14,000 psi

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## Flexural Strength

ASTM C580-85 4,000 psi

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## Tensile Strength

ASTM C307-83 2,000 psi

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Bond Strength Failure in  
To Concrete Concrete

ASTM D4541-89

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

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Water Absorption +0.10%  
ASTM C413-93

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## **PACKAGING & COVERAGE**

DUROPATCH 3000 CT 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.

Application thickness may vary from 1/8 to ¼ inches, depending on the expected service conditions. Factors to consider are 1) length of chemical exposure (i.e., immersion vs. splash/spill) and 2) mechanical abuses (i.e., tow traffic, loaded trucks vs. cart and foot traffic, etc.).

## **CURE TIME**

The cure time of DUROPATCH 3000 CT 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.

# DUROPATCH 3000 CT

Service (hours)      45F    55F    65F

|                |        |        |        |
|----------------|--------|--------|--------|
| Foot Traffic   | 12     | 8      | 4      |
| Light Chemical | 12     | 10     | 10     |
| Forklift       | 24     | 16     | 12     |
| Heavy Chemical | 7-days | 6-days | 3-days |

## **MIXING & APPLICATION**

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

## **STORAGE & SHELF LIFE**

DUROPATCH 3000 CT should be stored at 45-90°F out of direct sunlight. All containers should remain unopened until ready for use. If stored as set out above, DUROPATCH 3000 CT has a minimum shelf life of one year.

## **WHERE DUROPATCH 3000 CT SHOULD NOT BE INSTALLED**

DUROPATCH 3000 CT should not be applied over substrates:

- Subject to hydrostatic pressure.
- Unsound structures.
- Contaminated substrates which cannot be cleaned.
- At temperatures below 45° F (Consult DuroPro Engineered Products).
- Which are wet during application.

## **SAFETY**

DUROPATCH 3000 CT 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.

## **WARRANTY**

DuroPro Engineered Products warrants that at the time of shipment, its products are free of defects in material and workmanship. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by DuroPro Engineered Products. DuroPro Engineered Products makes no warranty concerning the suitability of its product for application to any surface, it being understood that the goods have been selected and the application ordered by the Owner/End User or Purchaser. DUROPATCH 3000 CT MAKES NO WARRANTY, EXPRESS OR IMPLIED, THAT THE GOODS SHALL BE MERCHANTABLE OR THAT THE GOODS ARE FIT FOR ANY PARTICULAR PURPOSE. THE WARRANTY OF REFUND OR REPLACEMENT SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES ARISING BY LAW OR OTHERWISE; AND DUROPATCH 3000 CT SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWN TIME, DAMAGES TO PROPERTY OF THE OWNER/END USER, PURCHASER OR OTHER PERSONS, OR DAMAGES FOR WHICH THE OWNER/END USER OR PURCHASER MAY BE LIABLE TO OTHER PERSONS, WHETHER OR NOT OCCASIONED BY DUROPATCH 3000 CT NEGLIGENCE. This warranty shall not be extended, altered, or varied except by written instrument signed by DuroPro Engineered Products and Owner/End User or Purchaser.

The full product warranty is available from your representative.