



DuroPro Engineered Products

DUROPATCH 3000

PARA LA PROTECCIÓN CONTRA PRODUCTOS QUÍMICOS INDUSTRIALES

DESCRIPCIÓN

DURAPATCH 3000 es un sistema de revestimiento epoxi 100% sólidos, ideal para aplicaciones de hormigón. Es un sistema autonivelante y se puede aplicar como suspensión / esparcimiento y / o sistema de recubrimiento reforzado. DURAPATCH 3000 está diseñado específicamente para resistir el ataque de ácidos moderadamente concentrados, así como la mayoría de los demás productos químicos orgánicos. Junto con la excelente resistencia química, la resistencia a los abusos mecánicos es insuperable

La formulación vertical de DURAPATCH 3000 se aplica con llana a 1/8 de pulgada (125 milésimas de pulgada).

TYPICAL APPLICATIONS

- Plantas de proceso
- Cuencas de contención Trenches
- Sumideros
- Bases de tanques
- Cualquier área en general donde se utilicen productos químicos agresivos

CARACTERÍSTICAS

DURAPATCH 3000 permite una aplicación rápida donde se requiere una excelente resistencia química y al desgaste. DURAPATCH 3000 se puede instalar sobre la mayoría de los pisos sólidos, incluido el concreto viejo o nuevo y la mayoría de los tipos de morteros de reparación. Con espesores variables de hasta 1/4 de pulgada, el sistema DURAPATCH 3000 proporciona resistencia química a largo plazo para salpicaduras y derrames, o inmersión en una amplia gama de productos químicos. (Para obtener recomendaciones específicas, consulte la "Guía de resistencia química" y su distribuidor local).

DURAPATCH 3000 es similar a DURAPATCH 4000 y 5000 pero proporciona un menor grado de resistencia química pero mayores ahorros de costos. Al igual que con todos los sistemas DURAPATCH, DURAPATCH 3000 proporciona una excelente protección física incluso en los entornos industriales más duros.

OTRAS CARACTERÍSTICAS INCLUYEN:

- Curado rápido que resulta en un tiempo de inactividad mínimo
- 100% no poroso
- Libre de olores

DUROPATCH 3000

- Cecdcfq"fg"ugi wtkfcf"cpvkfgunk|cpvg
- Rwgfg"crnkectug"uqdtg"jqt oki»p"jÀogfq
- VyOL&SRUKORHQ
- &29V&LQVWUD&SRUHOIDEULFDVH

TYPICAL PROPERTIES

Solids, by Volume 100 %

Compressive Strength

ASTM C579 11,400 psi

Flexural Strength

ASTM D790 4,000 psi

Tensile Strength

ASTM D307 2,100 psi

Bond Strength to Exceeds tensile strength

Concrete ASTM D4541 of concrete.

Failure in concrete

Taber Abrasion Loss/1000

ASTM D4060 cycles =25 mg

CS 17 Wheels

Water Absorption 0.10%

ASTM D413 Maximum

PACKAGING AND COVERAGE

DURAPATCH 3000 is available in 20 square foot patch kits (based on ¼ inches) 1 and 5 gallon units. The coverage rate is appx. 64 sq ft at 25 mils with the theoretical coverage being 1604 sq ft at 1 mil.

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CURE TIME

The cure time of DURAPATCH 3000 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 may 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 65°F.

Service (hours)	65°F	75°F	90°F
Foot Traffic	12	8	6
Light Chemical	12	10	10
Fork Lift	36	24	12

**Where heavy chemical abuses are anticipated, longer cure*

times may be required. Contact DuroPro Engineered Products or the local distributor for specific recommendations. These times are after the final coat has been applied.

SURFACE PREPARATION

NEW CONCRETE – The concrete should be well cured for a minimum of 10 (ten) days, per ACI 308-81, (R-1986), clean, dust-free and free of all contaminants. Mechanical methods such as sandblasting, scarifying or shot blasting should be employed to remove the weak layer of surface laitance. A minimum tensile strength of 200 psi is required of the prepared surface. Acid etching with muriatic acid is acceptable but less desirable. Care must be taken to completely remove all residual acid prior to the application of DURAPATCH 3000.

EXISTING CONCRETE – Concrete must be structurally sound and free of all contaminants. Weak or contaminated concrete must be removed until sound concrete is realized. Old coatings, toppings, waxes, oils, etc. must be removed prior to the application of DURAPATCH 3000.

MIXING

Prior to application, the DURAPATCH 3000 (Resin, Hardener and Silica) and the substrate should be between 65° F and 90° F.

Premix the Part A (Resin) for appx. 30 seconds with a Jiffler type mixer prior to adding the Part B (Hardener). After adding Part B mix for an additional 1 minute before pouring onto the substrate.

APPLICATION METHODS

Basic Broadcast

In order to achieve a 60 mil system, apply a 22 mil (73 sq ft/gal) basecoat and for a 125 mil system, apply a 48 mil (34 sf/gal) basecoat. Within 20 minutes of the basecoat being applied broadcast to excess using a 20/40 mesh silica. Once the basecoat is cured, apply a 10-16 mil topcoat utilizing squeegees and short nap paint rollers.

Basic Broadcast Reinforced

A 1.5 oz chopped or a fiberglass scrim cloth can be added to the basecoat of the 125 mil system prior to the silica broadcast.

Slurry Broadcast

Split the mixed Pt A and Pt B into two 5 gallon buckets. Slowly mix in a 2:1 by weight ratio of silica to liquid (appx 1-50 lb bag per 2.5 gallons). Apply to substrate to appx. 1/8 or 3/16 inch and within 15 minutes broadcast silica to excess.

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Slurry Broadcast Reinforced

Apply a basecoat of 35 mils and embed the fiberglass of choice. Allow to cure and commence the desired slurry broadcast system.

Note: The above systems have their “vertical rolling, or troweling) counterparts.

STORAGE and SHELF LIFE

DURAPATCH 3000 should be stored at 50-90°F out of direct sunlight. All containers should remain unopened until ready for use. If stored as set out above, DURAPATCH 3000 has a minimum shelf life of one year.

WHERE DUROPATCH 3000 SHOULD NOT BE INSTALLED

DURAPATCH 3000 should not be applied over substrates:

- subject to extreme hydrostatic pressure
- which are unsound
- which are contaminated and cannot be cleaned.
- at temperatures below 65°F (Consult DuroPro Engineered Products).

SAFETY

Read Safety Data Sheets (“SDS”) before using. DURAPATCH 3000 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. SDS are available for this product upon request.

WARRANTY

DuroPro Engineered Products warrants our products to be free of manufacturing defects in accord with applicable DuroPro quality control procedures. 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. No other warranty or guarantee of any kind is made by DuroPro Engineered Products, expressed, or implied, statutory, by operation of law or otherwise, including merchantability and fitness for a particular purpose.

The full product warranty is available from your representative.

CLEAN-UP

All mixing and application equipment should be cleaned immediately after use. If this is done, soap and water or biodegradable cleaners can be used. If the material has begun to set, more aggressive solvents will be necessary. Before using solvents, refer to their respective SDS for handling considerations.