

DURAPATCH

Product Data 3000D



SELECTION & SPECIFIC DATA

Generic Type

Novolac Epoxy

Description

All Purpose Quick Cure Epoxy Paste -

DURAPATCH is a unique, multi-component, novolac epoxy designed to quickly and permanently patch, seal and repair cracks, holes and leaks in metal, plastic, fiberglass and concrete surfaces. DURAPATCH cures in minutes, so down time is greatly reduced. DURAPATCH is perfect for machine shop and field use to repair and rebuild equipment. DURAPATCH is ideal for repairing warehouse floors, fixing leaks in tanks, repairing pool equipment and tiles, piping, electrical bushings, and setting keyways or taper fits for fast turnarounds. DURAPATCH is versatile, quick, easy to use, extremely strong and durable. DURAPATCH bonds chemically and mechanically to the substrate. DURAPATCH can be sanded, tapped and machined. DURAPATCH has excellent bonding strength and is ideal for many residential and commercial repairs. The DURAPATCH Repair Kit comes complete with a resin Pack (Part A), a hardener Pack (Part B) and a trowel. Cut the corners of the resin and hardener and mix quickly, yet thoroughly on a non-porous surface and apply with the trowel.

Product Features & Benefits

- All Purpose Quick Cure Epoxy Paste
- Hardens in 5- 15 minutes depending on ambient temperature (down to 38°F)
- Ideal for immediate field use repairs
- Trowellable - ideal for vertical surface repairs
- Self-priming - bonds chemically and mechanically to the substrate
- Can be sanded, drilled, tapped and machined
- 100% solids - No VOCs

Recommended Uses

- Metal cooling tower pans
- Emergency tank and pipe repairs
- Electrical bushings Setting keyways and taper fits
- Repair of metal, fiberglass, composite, PVC and similar plastic materials

Color/Part

Dark Gray

Finish

Satin

Primer

Self-priming

Solids Content

By Volume 100%

Theoretical Coverage

12.8 ft²/gal at 125 mil, 2 ft²/gal at 800 mil

Service Temperature

Dry Service 250°F (121°C)

Spill/Splash Service 212°F (100°C)

Immersion Service* 140°F (60°C)

CHEMICAL RESISTANCE

Acetic Acid up to 10%
Black Liquor
(Most) Chlorides
Mineral Acids
(Most) Phosphates
Sodium Hydroxide*
Urea Solutions

Ammonium Hydroxide*
Butyl Acetate
Hydrogen Sulfide
Nitric Acid up to 20%
Phosphoric Acid
(Most) Sulfides
White Liquor

Aromatic & Aliphatic Solvents
Butyl Carbitol
Isopropyl Alcohol
(Mild) Organic Acids
Potassium Hydroxide*
Sulfuric acid up to 50%

**Ambient temperature only*

SUBSTRATES & SURFACE PREPARATION

All Surfaces must be clean, dry and free of contaminants.
Steel Immersion: SSPC-SP10 Near-White Metal Blast with angular profile of 3.0 – 4.0 mils. Non-immersion: SSPC-SP6 Commercial Blast with angular profile of 2.5 – 3.5 mils
Weld Repair Use a flame to sweat out oil from deeply impregnated surfaces. Stabilize cracks by drilling the extremities. Long cracks should be drilled, tapped and bolted every few inches. Vee-out all cracks using a file. Degrease using clean rags.
Substrate Temperature 50°F – 140°F (10°C – 60°C) 140°F (60°C), <90% relative humidity.

MIXING & THINNING

Mixing Thoroughly mix the two parts, supplied in pre-measured sachet packs, until no streaks are seen. Apply to surface rapidly, pressing hard to achieve maximum wetting, then proceed with thickness desired. Mix no more product than can be applied in 5 minutes. When rebuilding structures, use layers of reinforcing cloth and apply product as thick as the parent substrate.
Ratio 2A:1B by volume
2A:1B by weight
Pot Life 5 minutes
Multi-layers If building layers or pipe wrapping with reinforcing cloth, apply the coating within the recoat window. If this is not possible, allow the compound to cure, then create a mechanical profile by grit blasting, grinding or power tool sanding the surface before coating.

APPLICATION EQUIPMENT GUIDELINES

Application Apply directly on to the prepared surface with the plastic applicator or spatula provided. Press down firmly to remove entrapped air, fill all cracks, and ensure maximum contact with the surface. Use reinforcement tape over holes and cracks. Fully machinable using conventional tools once cured.
Brush & Roller Brush or roller can be used to smooth uncured surface with solvent if desired.

CLEANUP & SAFETY

Cleanup Use MEK or Acetone. In case of spillage,

Safety

Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation

When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. User should test and monitor exposure levels to insure all personnel are below guidelines.

PACKAGING, HANDLING & STORAGE

Shelf Life

Part A: 5 years at 75°F (24°C)

Part B: 5 years at 75°F (24°C)

Package Sizes & Shipping Weight

2 x 170 g kit per case: 1.5 lbs. (1.46 kg)

1 x 170 g bag: 6 oz (0.17 kg)

Storage Temperature & Humidity

40°F – 110°F (4°C – 43°C)

0 – 100% relative humidity

Storage

Store in a dry, well-ventilated area. Maintain product in original packaging and sealed until ready for use. Avoid exposure to direct sunlight or extreme temperatures.

CURE SCHEDULE & RE-COAT WINDOW

Working Time at 68°F (20°C)

5 minutes

Recoat Window at 68°F (20°C)

20 minutes

Machining at 68°F (20°C)

30 minutes

Mechanical Service at 68°F (20°C)

30 minutes

Chemical Resistant Service at 68°F (20°C)

3 hours

** For every 10°C cooler, double the time. For every 10°C warmer, halve the time.*

PERFORMANCE DATA

Compressive Strength ASTM D695

15,693 psi

Flexural Strength ASTM D790

7000 psi

Tensile Shear Adhesion ASTM D1002

2550 psi

Barcol Hardness ASTM D785

85

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