

DFense Blok[™] Quick Patch

| Description: | Alumina ceramic bead-filled epoxy system with a very fast cure speed, allowing for emergency patching of processing equipment. Provides wear and abrasion resistance for extended service life. | | |
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| Intended Use: | Patch holes, leaks and cracks in all types of processing equipment such as: scrubbers, ash handling systems, pipe elbows, screens, chutes, recontour chippers, bins, hoppers, bunkers, separators, digester tables, exhausters, launderers, housing fans, crushers and breakers. | | |
| Features: | Eliminates downtime, Exceptionally fast cure for emergency patching, Applies to vertical and overhead surfaces, Easy to mix, Ceramic beads for wear resistance | | |
| Limitations: | Suitability of product is determined by the end user for their application and process. | | |
| Typical Physical Properties: | Technical data should be considered represent Cured 7 Days @ 75°F (24°C) Adhesive Tensile Shear Coefficient of Thermal Expansion (x10-6) Color Compressive Strength Cured Hardness Cured Shrinkage Dielectric Constant Flexural Strength Recoat Time Specific Gravity Temperature Resistance Uncured Properties @ 72°F (23°C) % Solids by Volume Coverage (1/4" / 6.35mm) Cure Time Functional Cure Mix Ratio by Volume Mix Ratio by Volume Mix Ratio by Weight Mixed Viscosity Pot Life @ 75 °F | tative or typical only and should not be used 2,495 psi (17.2 MPa) 31 in/in.°F (55.8 cm/cm.°C) Grey 6,166 psi (42.5 MPa) 84 D 0.0010 in/in (cm/cm) 51 4,880 psi (33.7 MPa) 20-30 minutes 1.86 Dry 200°F (93°C) 100 60 in2/lb (853 cm2/Kg) 6 hrs 30 mins. 1:1 1:1 Non-Sag Putty 4 mins. | I for specification purposes. Standard Tests Adhesive Tensile Shear ASTM D 1002 Coef. of Thermal Expansion ASTM D 696 Compressive Strength ASTM D 695 Cured Hardness Shore D ASTM D 2240 Cure Shrinkage ASTM D 2566 Dielectric Constant ASTM D 150 Flexural Strength ASTM D 790 |
| Surface Preparation: | Thoroughly clean the surface with Devcon® Cleaner Blend 300 to remove all oil, grease and dirt. Grit blast surface area with 8-40 mesh grit, or grind with a coarse wheel or abrasive disc pad, to create increased surface area for better adhesion (Caution: An abrasive disc pad can only be used provided white metal is revealed). Desired profile is 3-5mil, including defined edges (do not "feather-edge" epoxy). Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast the area, then leave overnight to allow any salts in the metal to "sweat" to the surface. Repeat blasting to "sweat out" all soluble salts. Perform chloride contamination test to determine soluble salt content (should be no more than 40ppm). Clean surface again with Devcon® Cleaner Blend 300 to remove all traces of oil, grease, dust or other foreign substances from the grit blasting. Repair surface as soon as possible to eliminate any changes or surface contaminants. WORKING CONDITIONS: Ideal application temperature is 55°F to 90°F (13-32°C). In cold working conditions, directly heat the repair area to 100-110°F (38-43°C) prior to applying epoxy and maintain at this temperature during product cure to dry off any moisture, contamination or solvents, as well as to achieve maximum performance properties. | | |
| Mixing Instructions: | It is strongly recommended that full units b Add hardener to resin Mix thoroughly with screwdriver or similar to streak-free consistency is obtained. INTERMEDIATE SIZES (1,2,3 lb. units): Place sheet. Use a trowel or wide-blade tool to mix th LARGE SIZES: (25 lb., 30 lb., 50 lb. buckets): Thoroughly fold putty by vigorously moving part | ol (continuously scrape material away from s e resin and hardener on a flat, disposable su he material as in Step 2 above Use a T-shaped mixing paddle or a propelle | rface such as cardboard plywood or plastic er-type Jiffy Mixer Model ES on an electric drill. |

| Application Instructions: | Spread mixed material over the repair area and work firmly into the substrate to ensure maximum surface contact. Dfense Blok™ Quick Patch cures rapidly. For optimum end use performance, it is critical to mix and apply product within the 4 minute pot life. Application Tip: Use plastic bag provided in kit as application tool. Position hand inside of bag and place mixed product (outsic into palm. Press Dfense Blok™ Quick Patch firmly against the repair area. The plastic bag will promote easier spreading/smoothin product across the desired area. NOTE: The plastic bag is an application tool only and is not intended to replace the need for chen resistant (and possibly heat resistant) gloves. Use proper Personal Protective Equipment in accordance with the Material Safety Da | | | |
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| | FOR BRIDGING LARGE GAPS OR HOLES Place fiberglass sheet, expanded metal or mechanical fasteners between repair area and Dfense Blok™ Quick Patch prior to application. FOR ± 70°F (21°C) APPLICATIONS Applying epoxy at temperatures below 70°F (21°C) lengthens functional cure and pot lifetimes. Conversely, applying above 70°F (21°C) shortens functional cure and pot life. | | | |
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| Storage: | Store at room temperature, 70 °F (21°C). | | | |
| Compliances: | None | | | |
| Chemical Resistance: | Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)1,1,1-TrichlorethaneVery goodAmmoniaExcellentGasoline (Unleaded)FairHydrochloric 10%Very goodMethanolPoor | | | |
| Precautions: | FOR INDUSTRIAL USE ONLY: Please refer to the appropriate <u>Safety</u> <u>Data</u> <u>Sheet</u> prior to using this product. | | | |
| Warranty: | ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained. | | | |
| Order Information: | Item No.Package Size113509 lb. (4.1 Kg) | | | |
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