



The FRP Retrofit Experts

QuakeWrap, Inc.
2055 E. 17th Street
Tucson, AZ 85719 U.S.A.
Phone: (866) QuakeWrap [782-5397]
FAX: (520) 791-0600
www.QuakeWrap.com

Product Data Sheet QuakeBond™ J200TC Tack Coat

DESCRIPTION

QuakeBond™ J200TC (Tack Coat) is a two-component high-strength structural epoxy designed for vertical and overhead applications. J200-TC has an immediate high tack consistency, allowing it to hold heavy weight fabrics impregnated with J300-SR Saturating Resin in place during cure. QuakeBond™ J200TC trowels easily and has a long pot life for coverage of large areas. The convenient color-coded ("A" black and "B" white) 1:1 volumetric mix ratio is user friendly. QuakeBond™ J200TC is a 100% solids formulation with low toxicity and low odor during cure.

USE

- Adhesive for bonding external reinforcement to concrete, masonry, wood, stone, steel, etc.
- Structural bonding of carbon laminates, e.g. QuakeWrap™ DU50C.
- Structural bonding of fabrics saturated with QuakeBond™ J300SR resin on vertical and overhead surfaces.
- As a binder for epoxy mortar repairs.

ADVANTAGES

- Long pot life.
- High strength, high modulus, structural paste adhesive.
- Fully compatible and excellent adhesion to QuakeWrap™ DU50C carbon laminate plates and glass or carbon fabrics saturated with QuakeBond™ J300SR resin.
- Paste consistency ideal for vertical and overhead applications.
- Convenient easy mix ratio, 1:1 by volume.
- 100% solvent free.
- Color coded components (Black & White) to ensure proper mixing control.
- Nearly odor-free.
- Low toxicity during cure.

COVERAGE

Applied at a thickness of 40 mil (1 mm) results in 40 square feet per gallon (1 liter per square meter). Rough and uneven surfaces result in lower yields.

PACKAGING

Each of the components is supplied in 55-gallon (208L) drums or 5-gallon (19L) containers, resulting in 110-gallon or 10-gallon kits. Ships DOT non-regulated.

MIXING

Proportion 1 part component "A" to 1 part component "B" by volume into a clean container. Mix thoroughly for 3 minutes using a paddle at low speed (400-600 rpm) drill until uniform color is achieved. Mix only the quantities that can be used within pot life. DO NOT THIN; solvents will prevent proper cure.

SHELF LIFE

Two years in original, unopened and properly stored containers.

STORAGE CONDITIONS

Store at 45°-100° F (7°-38° C). Avoid freezing.

CERTIFICATE OF COMPLIANCE

- Material Safety Data Sheet (MSDS) will be supplied upon request and is included with each shipment.
- Possesses 0% volatile content per EPA Test Method 24.

SURFACE PREPARATION

Surface must be clean and sound. It may be dry or damp but free from standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength of 200 psi (1.4 MPa) with concrete substrate failure is required. Blast clean, shot-blast, scarify or use other approved mechanical means to clean the substrate surface. Any sharp edges (i.e. fins, form-marks, etc.) must be ground smooth and flush. Sharp edges must be rounded to a minimum radius of ¼ in. (19 mm).

APPLICATION

Apply QuakeBond™ J200TC onto the substrate with a trowel or spatula to a nominal thickness of 40 mil (1 mm). A notched trowel may be used for this application. Before the epoxy hardens, apply saturated fabric or DU50C strips to the epoxy-coated surface. The external reinforcement must not be disturbed for a minimum of 24 hours.

LIMITATIONS

Minimum application temperature of the epoxy is 40° F (4°C). DO NOT THIN this epoxy with solvents.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse. Consult MSDS for detailed information.

CLEANUP

Collect with absorbent material, flush with water. Dispose of in accordance with local disposal regulations. Uncured materials can be removed with approved solvent. Cured materials can only be removed mechanically.

EPOXY PROPERTIES	
Color	Part A is black paste Part B is white paste
Viscosity	Non-sagging thixotropic paste
Pot Life at 77° F (25° C)	45 minutes
Full cure time	48 hours
Density at 68° F (20° C)	Part A: 10.2 lbs/gal (1.22 kg/L) Part B: 8.44 lbs/gal (1.03 kg/L)
Tensile Strength (ASTM D-638)	3530 psi (24.3 MPa)
Tensile Modulus (ASTM D-638)	197,200 psi (1360 MPa)
Compressive Strength (ASTM D-695)	4465 psi (30.8 MPa)
Compressive Modulus (ASTM D-695)	166,600 psi (1150 MPa)
Flexural Strength (ASTM D-790)	3950 psi (27.2 MPa)
Flexural Modulus (ASTM D-790)	7000 psi (48.3 MPa)
Shear Strength (ASTM D3165)	1320 psi (9.1 MPa)
Water absorption (% gain) in 24 hours	< 1%
Expansion Coefficient [-40° to 0° C]	84.6 *10 ⁻⁶ m/m °C
Expansion Coefficient [50° to 175°]	184.2 *10 ⁻⁶ m/m °C

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. NOT FOR INTERNAL CONSUMPTION.
KEEP CONTAINER CLOSED TIGHTLY. CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.

QuakeWrap, Inc. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. QUAKEWRAP, INC. SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.