The FRP Retrofit Experts

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Product Data Sheet

QuakeBond™ J201TC Tack Coat

DESCRIPTION
QuakeBond™ J201TC (Tack Coat) is a two-component high-strength structural epoxy designed for vertical and overhead applications. J201-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™ J201TC trowels easily and has a long pot life for coverage of large areas. The convenient color-coded ("A" yellow and "B" blue) 2:1 volumetric mix ratio is user friendly. QuakeBond™ J201TC 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, (2 volume parts of component "A" with 1 volume part of component "B").
- 100% solvent free.
- Color coded components (Yellow & Blue) 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
Component "A" is supplied in 2-gallon (7.58L) containers and component "B" in 1-gallon (3.79L) containers, resulting in 3-gallon kits. Ships DOT non-regulated.

MIXING
Proportion 2 parts 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 ¾ in. (19 mm).

APPLICATION
Apply QuakeBond™ J201TC onto the substrate with a trowel or spatula to a nominal thickness of approximately 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 yellow paste Part B is blue paste
Viscosity	Non-sagging thixotropic paste
Pot Life at 77° F (25° C)	90 minutes
Full cure time	48 hours
Density at 68° F (20° C)	Part A: 9.8 lbs/gal (1.18 kg/L) Part B: 9.4 lbs/gal (1.13 kg/L)
Tensile Strength (ASTM D-638) Tensile Modulus (ASTM D-638)	4360 psi (30.06 MPa) 329,000 psi (2268.45 MPa)
Compressive Strength (ASTM D-695) Compressive Modulus (ASTM D-695)	8006 psi (55.2 MPa) 278,900 psi (1923.02 MPa)
Flexural Strength (ASTM D-790) Flexural Modulus (ASTM D-790)	8025 psi (55.33 MPa) 250,100 psi (1724.44 MPa)
Shear Strength (ASTM D-3165)	1453 psi (10.02 MPa)
Water absorption (% gain) in 24 hours	< 1%
Expansion Coefficient [-40° to 0° C] Expansion Coefficient [50° to 175° C]	61.21 $*10^{-6}$ m/m °C 210.58 $*10^{-6}$ m/m °C

KEEP OUT OF REACH OF CHILDREN.
NOT FOR INTERNAL CONSUMPTION.

FOR INDUSTRIAL USE ONLY.
KEEP CONTAINER CLOSED TIGHTLY.

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.