

BOND-STST-101

HIGH PERFORMANCE CARBON FIBRE STRUCTURAL STRENGTHENING SYSTEM

STST-101 is a high performance super strengthening seismic retrofitting systems. It increase flexural, shear, Fatigue, Resistance.

SYSTEM STEP :

- a. Surface preparation
- b. Application of Bond & Bond AC-501 (Rust Converter) on rusted steel bar.
- c. Application of Bond & Bond EP-2216 (Epoxy + Hardener) low viscous 100% solid material for grouting in crack.
- d. Application of Bond & Bond EP-2214 (Epoxy + Hardener) low viscous 100% solid priming coat.
- e. Application of Bond & Bond Ind Seal Epoxide putty for sealing and rendering the substrate.
- f. Application of EP – 2214.
- g. Lay up the Carbon fiber required sized. (Apply 2nd coat it required)
- h. Apply EP – 2214 & sealer coat of pp – 302/plaster.

USAGE:

- Infrastructure repairs
- Structural Strengthening
- Blast resistance
- Seismic retrofitting

PROPERTIES :

- Light weight
- Easy application, no equipment require.
- Tailerability
- Increased flexural, Shear, Failure resistance & ductility.

SURFACE PREPARATION:

Remove all loose & unsound concrete plaster & flacks from the surface, remove all corroded parts from the steel, surface should be free from dirt dust, paint, oil, grease and other contamination. Surface should be clean by hand hammering, sanding, grinding it must be ground and smoothed to a radius. Mechanically and chemically cleaning, using cleaning chemical and wash with clean & potable water. Dilute 10 time of cleaning chemical by water and apply on to the surface then wash with plenty of fresh, clean potable water.

METHOD OF USE:

Apply Bond & Bond AC-501 (Rust transformer) on steel bar into two coat by brush, after 24 hours wash by water. Then crack shall be grouted with EP 2216(Low viscosity epoxy resin + Hardener systems) pressure up to max 5 kg/cm And then apply priming coat by spray or brush using Bond & Bond EP – 2214. Then prepare surface for glass fiber coating using putty filling dent, gaps etc. After curing of putty

roughing and sending, grinding the surface. Then apply primer coat of EP – 2214 & lay of the glass fiber first coat properly and tightly. Pressed with a stamper and roller to remove the entrapped air. Apply first coat of EP – 2214 on glass fiber then lay up second coat of glass fiber (if necessary) after interval of 2 – 4 hrs. , it depends on curing time of EP – 2214 apply 3 coat of EP – 2214 on 2 coat of glass fiber. Leave the surface, as it is in case it is to be applied coating. In case of application of plaster over the surface sprinkle coarse quarts sand over the coat of EP – 2214.

Gaps between fiber stretches shall not exceed 12mm and a lap length of 150mm minimum is required in the longitudinal direction. Vertical lapped joints must be staggered. So that this all application may be different depends on site and substrate conditions and shape.

Apply plaster / Sealer coat of Bond & Bond PP – 302 if required.

PACKING

- Cleaning Chemical - 35 Kg.
- Bond & Bond AC – 501 Liquid - 35 Ltr.
- Bond & Bond AC – 501 Powder - 3.8 Kg.
- Bond & Bond EP – 2216 - 15 Kg.
- Bond & Bond Ind-Seal putty - 4 & 20 Kg.
- Bond & Bond EP – 2214 - 15 Kg.
- Bond & Bond Carbon Fiber - 30 Sq.mtr. roll
- Bond & Bond PP – 302 - 20 Ltr.

The information contain here in is reliable and accurate the best of our knowledge. Technical services will provided for guidance when required. However conditions of uses and methods of application are beyond our control, no warranty is expressed or implied.

ALSO AVAILABLE CONSTRUCTION CHEMICALS LIKE CEMENT ADDITIVES, WATERPROOFING COATINGS, WATER REPPALENTS, CHEMICALS & ABRASION RESISTANCE FLOORINGS MATERIALS, EPOXY-POLYURETHANE RESINS, GOUTING MATERIALS, ANTI CORROSIVE PAINTS, FACADE PAINTS, SEALENTS AND ADHESIVES, RETRO REINFORCING REHABILITATION MATERIALS. FOR BUILDING, BRIDGE, DAM, CANAL, TUNNEL AND MARINE STRUCTURES, ETC



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