

# X-Tite StrongBond

## High strength epoxy adhesive

### Product Description

X-Tite StrongBond is a high build thixotropic epoxy resin used for bonding a wide range of construction materials.

### Composition

X-Tite StrongBond is a solvent free bisphenol A epoxy resin with an amine curing agent.

### Advantages

- Non Slump
- Non Shrink
- Easy to use
- Primerless
- Can be used in contact with potable water
- Resistant to wide range of chemicals
- Long pot life
- Can be used in immersed conditions

### Typical Uses

- Bonding of external steel plate reinforcement
- Bonding of aluminum and steel angles
- Bonding of slip bricks/tiles
- Bonding of EPDM membrane to concrete
- Bonding of bearing pads
- Installation of anchor bolts

### Laboratory Test Data

Properties	Typical Results
<b>Compressive strength (BS 6319)</b>	11800psi (82MPa)
<b>Tensile strength (BS 6319)</b>	2175psi (15MPa)
<b>Slant shear strength (BS 1881)</b>	4500psi (31MPa)
<b>Specific gravity</b>	1.75 ± 0.05
<b>Pot life</b>	1½ hours at 21C 45 minutes at 35C

### Theoretical Coverage

1.7 kg / m<sup>2</sup> at 1 mm thickening.

Actual coverage will depend on surface profile and wastage.

### Packaging

1 , 5 and 15kg packs.

### Shelf Life

12 months when stored below 30C under shade in a dry environment.

### Installation Guidelines

#### Surface Preparation

##### Concrete

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by wire brushing, light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface, revealing all bug (blow) holes and imperfections.

##### Steel

Any damaged steel should be removed and replaced. The substrate should then be grit blasted to minimum SA 2½. Depending on the level of corrosion protection required, an anti-corrosion or holding primer may be necessary. X-Tite StrongBond must be applied immediately after the grit blasting has been completed.

#### Mixing

Thoroughly mix the base 'Part A' prior to adding the hardener 'Part B' using a slow speed drill (500rpm) fitted with an X-Roc Epoxy Mortar Mixer Paddle. After mixing the base, add all the hardener and mix for a further 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

Note: To ensure all the hardener is added to the base, it will be necessary to use a scraper to remove all of the hardener from the sides of the can.

#### Application

Apply using trowel, scraper or spatula to the desired thickness on the "host" substrate and bond immediately. Provide temporary support if necessary until the adhesive has cured. For large areas apply to both the "host" substrate and the "guest" substrate prior to bonding both materials together.

### Clean Up

Remove uncured material from equipment using X-Shield Solvent. Cured material can only be removed by mechanical means.

### Limitations

Will change color when exposed to direct sunlight.  
Do not finish using solvent.  
Will not accommodate movement cracks.  
Do not apply below 4C or above 35C.  
Do not discard into the water system.

### Health and Safety

**This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website [www.ncc.com.eg](http://www.ncc.com.eg)**

### Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit [www.ncc.com.eg](http://www.ncc.com.eg) for a full list of NCC X-Calibur ATs.

### Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.ncc.com.eg](http://www.ncc.com.eg) to ensure you have the latest version.

### Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.