

X-Tite SBA

Two part epoxy segmental bridge adhesive

Product Description

X-Tite SBA is a high build, solvent free thixotropic epoxy resin specifically developed for use as an adhesive for precast segmental bridge elements.

It is available in three grades for use at various temperature ranges:

Grade	Application Temperature
LT	5 to 20C
Standard	15 to 35C
HT	20 to 40C

Advantages

- Non slump
- Non shrink
- Primerless
- High strength
- High modulus
- Can be applied to damp substrates
- Can be applied at a wide range of temperatures

Specification Compliance

FIP
ASTM C881, Type VI.

Theoretical Coverage

5 Kg per m² at 5mm thickness.

Packaging

1 and 5 Kg Packs.

Shelf Life

24 months when stored below 35C under shade in a dry environment.

Laboratory Test Data (FIP Specifications)

	LT	Standard	HT
24 hour Compressive Strength MPa			
10C	40		
20C	65	60	40
30C	75	70	60
40C	80	80	70
Pot life (mins)			
10C	>90	>120	>150
20C	>60	>90	>120
30C	>30	>60	>90
40C	>15	>30	>60
Open time (mins)			
10C	>120	>150	>180
20C	>90	>120	>150
30C	>60	>90	>120
40C	>45	>60	>90
Squeezability mm² (inches²)			
15kg	6000	5800	5500
200kg	6500	6300	6000
400 kg	7000	6800	6500
Heat distortion temperature	>50C	>55C	>60C
Thixotropy	No sag at 6mm thick (all grades)		
Modulus of elasticity:	Instantaneous: 11000 to 13000MPa Deferred: 10000 to 11000MPa		
Shear strength	>15MPa (all grades)		

Installation Guidelines

X-Tite SBA should be applied by experienced application crews. NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

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. Grit blast or hydro blast if required.

Mixing

Thoroughly mix the base 'Part A' prior to adding the hardener 'Part B' using a slow speed drill (350 rpm) 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. Note: When mixing full packs 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 by trowel or gloved hand to both the segments to be joined. Work into the substrate to ensure complete wetting out of the surface. Join the segments firmly together within the stated open time. X-Tite SBA can be applied by low pressure pump and a static mixer to provide mixed material direct to the segment face. Contact NCC X-Calibur for more details.

Clean Up

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

Limitations

Do not part mix packs.
Do not add fillers or solvents.
Do not apply below 5C.
Avoid excessive application.
Avoid skin contact.
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

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSS') 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 for a full list of X-Calibur ATSSs.

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 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 Chemistry 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 Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



Quality Statement

All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004 , ISO 9001:2000.



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www.x-calibur.us