

# X-Tile ETA4

## Two component epoxy tile and stone adhesive

### Product Description

X-Tile ETA4 is a two component epoxy tile adhesive based on a high grade epoxy resin system with superior adhesion, chemical resistance and application properties. It can be applied on a variety of substrates

### Advantages

- Meets SCAQMD Rule 1168 & LEED VOC Limits
- Formaldehyde free
- Chemical resistance
- Shrinkage free and high grab
- Can be used horizontally and vertically
- Damp proof resistance
- High bond strength
- Impact and vibration resistant
- Excellent adhesion

### Uses

- In tiling situations where high adhesion and chemical strength are required. It is suitable for use with all types of stone and tiles including glass mosaic tiles.
- It is also used for bonding VCT and vinyl sheet. A conductive version is available for use with conductive floor finishes.

### Suitable substrates

- Concrete
- Steel
- Aluminium
- Stainless steel
- Fiberglass
- Wood

### Specification Compliance

SCAQMD Rule 1168  
LEED NC2009 IEQ 4.1  
Estidama LBi-2.1  
ANSI A118.3  
BS 12004 Type R

### Laboratory Test Data

Property	Typical Results
Density	Approx. 1.5 kg/ltr
Pot Life	75 minutes at 25C
Compressive Strength (EN 102004 C1)	>75 MPa
Bond Strength (EN 102004 C1)	Concrete >3 MPa (concrete failure) Steel >8 MPa Fiberglass >1 MPa (fiberglass failure)
Flexural Strength (EN 102004 C1)	30 MPa
Tensile Strength (EN 102004 C1)	15 MPa

### Chemical Resistance

Chlorine 20ppm	Excellent
Bromine 50ppm	Excellent
Citric Acid 10%	Excellent
Tartaric Acid 10%	Excellent
Acetic Acid 5%	Satisfactory
Nitric Acid 25%	Good
Hydrochloric Acid 25%	Good
Sulphuric Acid 50%	Good
Sodium Hydroxide 50%	Excellent
Diesel Fuel / Petrol	Very Good
Sugar Solutions	Very Good
Lactic Acid	Very Good
Hydrocarbons	Very Good
Phosphoric Acid 50%	Very Good

### Volatile Organic Content

VOC = <20 g/L

### Color

Grey

### Coverage

1.5 kg m<sup>2</sup> per 1mm thickness.

### Packaging

1-5 Kg Pack. Larger packs available upon request.

### Shelf Life

Store in dry conditions between 5C to 40C. The shelf life is 18 months when unopened and stored correctly.

### Installation Guidelines

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.

### Substrate Preparation

Surface preparation is important. All surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding. Steel surfaces should be grit blasted to white metal.

### Mixing

Mix component A and B together thoroughly with a slow speed drill for 2 to 3 minutes (max 400 R.P.M.). Then add component C and continue mixing until homogeneous.

### Fixing

X-Tile ETA4 is applied in one coat at a thickness of 2 to 5mm. To achieve a uniform thickness, the mortar should be spread with a serrated trowel. Do not spread more than 0.5m<sup>2</sup> at a time. Spreading larger areas may result in the mortar drying out before tiles can be stuck to the adhesive, resulting in poor adhesion. The actual open time will vary according to the ambient conditions. Leave a minimum 2mm gap around every tile.

### Joints

Ensure that movement and perimeter joints are incorporated as per the relevant Code of Practice.

### Trial Area

Due to the wide variety of substrates, tiles and methods of tile fixing used in construction it is recommended that a trial area be carried out prior to commencement of tiling works and pull off tests carried out.

### Cleaning

Clean all tools and equipment immediately with X-Shield Solvent A.

### 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 ('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](http://www.ncc.com.eg) for a full list of NCC 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](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 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.