

X-Tile Fix

General purpose economical tile adhesive

Product Description

X-Tile Fix is a long chain polymer modified cementitious tile adhesive for use with high sustainably ceramic tile that can be used with the simple addition of water or can be modified with liquid latex to improve adhesion. It is suitable for use with standard ceramic tile. Use with X-Tile Bond for vitrified or porcelain tiles.

Composition

X-Tile Fix consists of ordinary Portland cement, specially graded aggregates and long chain polymer additives.

Advantages

- Meets SCAQMD Rule 1168 & LEED VOC Limits
- Formaldehyde free
- Easy to use
- Provides a good bond
- Can be used as single component or with the addition of X-Tile Bond a liquid polymer to improve adhesion and water resistance.

Uses

Internal tiling in:

- Commercial buildings
- Residential buildings

Specification Compliance

SCAQMD Rule 1168

LEED NC2009 IEQ 4.1

Estidama LBi-2.1

EN 12004 (C1) (when used with X-Tile Bond)

ANSI A118.4 (when used with X-Tile Bond)

BS 5980 Class AA

Laboratory Test Data

Property	Typical Results
Compressive strength(EN 102004 C1)	20MPa at 28 days
Flexural strength (EN 102004 C1)	3MPa at 28 days
Bond strength (EN 102004 C1)	> 950N at 7 days

The above data was obtained under laboratory conditions when mixed with water and will vary in the field as a result of different factors.

Color

White & Grey.

Application Properties

Application temperature	5 to 40C
Min. application thickness	2 to 3mm
Max. application thickness	6mm
Max. temp. of mixed material	30C
Working time	40 min at 25C
Open time	20 min at 25C
Mixing water	4 to 4.5L per bag

Volatile Organic Content

VOC = <10 g/L

Coverage

Approximately 4m² per bag when applied at a thickness of 3mm.

Yield

Approximately 16 liters per bag.

Packaging

25kg bags.

Shelf Life

12 months when stored below 25C under shade in a dry environment.

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.

Surface Preparation

Suitable substrates are Portland cement based renders, concrete and screeds, and moisture resistant gypsum board. The substrate must be sound, clean and free of any contamination such as form oil, dust, paint etc.

Priming

After surface preparation has been completed, the substrate should be soaked with water and not allowed to dry out. At the time of placing

the tile adhesive, the substrate has to be in a saturated surface dry (SSD) condition with no free water present. If the surface is allowed to dry out prior to application of the mortar, the bond may be reduced.

On very porous surfaces prime with X-Tile Bond to seal the surface. Apply X-Tile Fix within 30 minutes of priming.

To increase bond the rear face of the tile can be primed using X-Tile Bond.

Prime with X-Tile Bond when being applied to cementitious waterproofing membranes.

Mixing

X-Tile Fix should only be mixed in full packs. Place pre-measured clean cool water in a clean mixing vessel of adequate size, such as a plastic bucket. Slowly add the X-Tile Fix powder to the water while starting to mix with a slow speed drill and suitable mixer. Mix for three minutes and allow to stand for five minutes. Mix again for one minute before using the material. No further water should be added to the mixed mortar which must be used within 30 minutes. Stiffened mortar should not be re-mixed or used.

When using with X-Tile Bond, mix as above but use X-Tile Bond instead of water. Do not add any additional water.

Fixing

X-Tile Fix is applied up to a thickness of 6mm. To achieve a uniform thickness, the mortar should be spread with a serrated trowel. Do not spread more than 0.5m² 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 porosity of the surface and ambient conditions. Leave a minimum 2mm gap around every tile.

Joints

Ensure that the movement and perimeter joints are incorporate as per the relevant Code of Practice (Refer to NCC X-Calibur Technical Note 006.07).

Trial Area

Due to variation 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. The trials should be carried out using the adhesive mixed with the actual water content that will be used throughout the project.

Grouting

Grouting should be carried out at 24 to 48 hours after completion of tiling.

Limitations

Not suitable for use with glass mosaic or porcelain tiles or other low absorption (<15%) tiles, unless used with X-Tile Bond.

Do not apply at thicknesses outside the range quoted on this datasheet.

Do not apply to wood, steel or painted surfaces.

Tiling in newly constructed buildings should not begin until all shrinkage movement has occurred.

Portland cement based renders, plasters and floor screeds should be 14 days old before tiling commences. Do not apply to dry substrates or in rain or on a surface where free water is present.

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 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 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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