

X-Tile STA

Cementitious water resistant tile adhesive.

Product Description

X-Tile STA is a cementitious semi flexible single component adhesive for use with natural stone low porosity tiles

Composition

X-Tile STA consists of white Portland cement, specially graded aggregates and polymer additives.

Advantages

- Formaldehyde free
- High polymer content
- Semi Flexible
- Easy to use
- Provides superior bond
- Water resistant
- Single component
- Non-staining.
- Can be applied up to 10 mm

Uses

Internal and external fixing of:

- Natural stone
- Glass mosaic
- Glass brick
- Ceramic tiles
- Porcelain tiles

Specification Compliance

EN 12004 C2TE
ANSI A118.4

Laboratory Test Data

Property	Typical Results
Nature	Powder
Color	Grey – white
Specific gravity of paste	1.85 ± 0.05 g/cm ³
Compressive strength (ASTM C109)	> 18 MPa at 28 days
Flexural strength (ASTM C580)	> 3 MPa at 28 days
Shear strength	> 2 MPa at 28 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.

Application Properties

Application temperature	5 to 40C
Initial set	6 -7 hours
Final set	10 -12 hours
Open time	50 - 70 min at 25°C
Mixing water	4.5 – 5.5 L per bag

Volatile Organic Content

VOC = <20 g/L

Yield

One bag of X-Tile STA yields 16.5 liters when used as a thin set mortar.

Coverage

25 kg X-Tile STA / 5.5 – 9 m² depend on trowel type: 8.39 m² for trowel 6 mm² and 6.93 m² for trowel 8 mm² thickness and 6.65 m² for trowel 10 mm² thickness.

When used as a thick set adhesive yield will be slightly less. And all of these consumption depend on surface nature and wastage of technical.

Packaging

50kg bags.

Shelf Life

12 months when stored below 35°C 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. When tiles are being applied to gypsum plasterboard or calcium silicate board or when the adhesive is being used as a thick set adhesive prime using X-Roc BondCure applied as a uniform consistent coat until fully absorbed. Apply the tile when the substrate is "sticky" when touched. (Refer NCC X-Calibur Technical Note 005.07). In thick set applications also prime the rear face of the tile using X-Roc BondCure or X-Shield BondSeal as described above. Prime with X-Roc BondCure when being applied to cementitious waterproofing membranes.

Mixing

X-Tile STA 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 STA powder to the water while starting to mix with a slow speed drill and suitable mixer. Mix for three minutes and allow standing 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-Roc Latex, add one liter of X-Roc Latex to the water and mix as detailed above. Reduce the total water added by 0.5 liter.

Fixing

X-Tile STA is applied in one coat at a thickness of 3mm when used as a thin set adhesive, and 5mm when used as a thick set adhesive. 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 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 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. 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

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 ('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 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 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 Chemicals **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 Chemicals shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.