

X-Tile DTA

Deformable polymer modified cementitious tile adhesive

Product Description

X-Tile DTA is a high performance deformable cementitious tile adhesive with increased open time, which can be used for installation of ceramic tiles, large size porcelain tiles and natural stone. It is highly thixotropic, and therefore suitable for vertical applications without sagging.

Composition

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

Advantages

- Can be used for internal and external application
- Formaldehyde free
- Highly thixotropic
- Suitable for high traffic areas
- High polymer content
- Flexible and easy to use
- Provides superior bond on uneven surfaces
- Water resistant
- Ability to accommodate the deformation from the substrate

Uses

Internal and external fixing of:

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

Suitable substrates

- Concrete
- Plaster & Render
- Gypsum board
- Existing ceramic or marble flooring
- Compatible sound insulation membranes

Specification Compliance

EN 12004 (C2TES1)
ANSI A118.4

Volatile Organic Content

VOC = <20g/L

Technical Properties

Property	Typical Results
Initial tensile adhesion strength (28d) (EN 12004)	>1.0 N/mm ²
Tensile adhesion strength after heat ageing (EN 12004)	>1.0 N/mm ²
Tensile adhesion test after water immersion (EN 12004)	>1.0 N/mm ²
Adhesion Strength After Freeze-Thaw Cycling (EN 12004)	>1.0 N/mm ²
Transverse deformation (EN 12004)	2.5 - 5mm
Specific Gravity of Paste	1.75 ± 0.05 g/cm ³
Slip Resistance (EN 12004)	≤0.5 mm
Open Time (EN 12004)	≥30 min
Dry solids content (EN12004)	100%
Mixing Water	5 - 6 L per 25 kg bag

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

Yield

One 25 kg bag of X-Tile Fix yields 17.7 liters when used as a thin-set mortar

Coverage

25 kg X-Tile STA / 5 - 9 m² depend on the required Thickness.

Packaging

25 & 50kg bags.

Color

White and grey.

Shelf Life

12 months in sealed biodegradable plastic bags.

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 Latex applied as a uniform consistent coat until fully absorbed. Apply the tile when the substrate is "sticky" when touched.

Natural stone should be sealed with X-Tile BondSeal. Prime with X-Roc Latex when being applied to cementitious waterproofing membranes.

Mixing

X-Tile DTA 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 DTA 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. Stiffened mortar should not be re-mixed or used.

Fixing

X-Tile DTA is applied in one coat at a thickness of up to 10mm. To achieve a uniform thickness, the mortar should be spread with a serrated trowel. Do not spread more than 0.5m² at a time and install tiles within 30min at 25C. 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.

Joints

Ensure that movement and perimeter joints are incorporate 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. 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

Protect from direct exposure to sun, wind and rain during application.

Do not apply to wood, steel, PVC or painted surfaces.

Tiling in newly constructed buildings should not begin until all shrinkage movement is completed.

Portland cement based renders, plasters and floor screeds should have hardened before tiling commences.

Maximum temperature of mixed material is 30C.

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 ATSS.

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 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.