

# X-Tile Grout TJ

General purpose tile grout.

## Product Description

X-Tile Grout TJ is a cementitious single component tile grout.

## Composition

X-Tile Grout TJ consists of ordinary Portland cement, specially fillers and polymers, pigments, additives and anti-microbial compound.

Can be used in wet areas and high traffic areas when used with X-Roc Latex

## Advantages

- Meets SCAQMD Rule 1168 & LEED VOC Limits
- Formaldehyde free
- Easy to use
- Water resistant
- Fungus and micro-organism resistant
- Single component

## Uses

Grouting of internal tiling works.

## Specification Compliance

SCAQMD Rule 1168  
LEED NC2009 IEQ 4.1  
Estidama LBi-2.1  
ANSI A118.6

## Laboratory Test Data

Property	Typical Results
<b>Nature</b>	Powder
<b>Color</b>	Grey – white
<b>Specific gravity of paste</b>	1.85 ± 0.05 g/cm <sup>3</sup>
<b>Compressive strength (ASTM C109)</b>	>24.13 MPa at 28 days
<b>Flexural strength (ASTM C580)</b>	> 2.5 MPa at 28 days
<b>Tensile strength (ASTM C307)</b>	> 2.5 MPa at 28 days
<b>Water absorption</b>	<12 %
<b>Liner shrinkage (ASTM C531)</b>	<0.1%

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

## Application Properties

<b>Application temperature</b>	5 to 35C
<b>Maximum joint size</b>	4mm
<b>Max. temp. of mixed material</b>	30°C
<b>Working time</b>	30 minutes
<b>Mixing water</b>	6 - 6.6 liters per bag

## Volatile Organic Content

VOC = <20 g/L

## Approximate Coverage kg/m<sup>2</sup>

Tile size (mm)	2mm Joint	3mm Joint	4mm Joint
<b>25x25x6</b>	1.9	2.8	5.6
<b>50x50x6</b>	0.8	1.2	2.4
<b>100x100x10</b>	0.8	1.1	2.2
<b>100x100x13</b>	1.0	1.4	2.8
<b>100x200x10</b>	0.6	0.8	1.6
<b>100x200x13</b>	0.8	1.1	2.2
<b>150x150x10</b>	0.6	0.8	1.6
<b>150x150x13</b>	0.7	1.0	2.0
<b>150x150x19</b>	1.0	1.4	2.8
<b>200x200x10</b>	0.4	0.6	1.2
<b>200x200x13</b>	0.6	0.8	1.6
<b>250x250x10</b>	0.3	0.4	0.8
<b>300x300x10</b>	0.2	0.3	0.6
<b>300x300x13</b>	0.2	0.3	0.6

## Standard Colors

Grey, white and beige. Other colors on request.

## Yield

One bag of X-Tile Grout TJ yields 14.7 liters when used as a thin set mortar.

## Packaging

20kg 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

The tile joints must be clean, free of any contamination and in a saturated surface dry (SSD) condition with no free water present.

## Mixing

X-Tile Grout TJ is normally mixed in full packs. Place up to 6.6 liters/20kg bag or 3.3 liters per 10kg bag (actual amount to be determined through site trial) of clean cool water in a clean mixing vessel of adequate size, such as a plastic bucket. Slowly add X-Tile Grout TJ powder to the water while starting to mix with a slow speed drill and suitable mixer (MR3 or similar). Mix for three minutes, to produce a fully dispersed creamy consistency. Allow to stand for one minute then mix for a further 30 seconds. No further water should be added to the mixed mortar, which must be used within 20 minutes. Stiffened mortar should not be re-mixed or used. When used in wet areas or areas subject to high traffic add 1.5 liters/20 kg bag or 0.75 liters per 10 kg bag of X-Roc Latex and reduce the water content by 0.5 to 0.8 Liter per 20 kg bag or 0.2 to 0.4 Liter per 10 kg bag When up to 1 kg of grout is required then the product can be mixed by hand as per NCC X-Calibur Technical Note 004.007 r1

Packs can be split if suitable weighing and measuring equipment is available at the job site.

Where multiple small areas are to be grouted transfer the mixed grout to clean buckets and distribute to the grouting teams to allow them to use the product within 20 minutes.

## Grouting

X-Tile Grout TJ should be applied within 24 to 48 hours after application of the tile adhesive. This will help ensure uniform stress distribution at the bond line. Apply using a rubber grouting spatula or trowel, taking care to ensure that is well compacted into the joints. Excess material should be removed immediately from the tile surface using a damp cloth or sponge.

## Curing

In hot conditions once grouting has been completed and the grout has set, cure for two days by mist spraying or spraying with water with clean potable grade water at regular intervals typically every 2 to 3 hours during working hours. In hot and windy conditions cure using a polythene sheet sealed with masking tape after the initial mist spray.

## Limitations

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

Do not use for tile joints wider than 4mm.

Do not apply to substrates that have free water present.

Do not apply to dry substrates.

## 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 ('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](http://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](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 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.