

X-Tech UraFloor TF

Heavy duty polyurethane hybrid screed and mortar

Product Description

X-Tech UraFloor TF is a heavy duty polyurethane based floor screed and mortar designed to provide excellent resistance to abrasion, chemical attack and thermal shock.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- High durability
- Resistant to abrasion, impact and chemical attack
- Able to be steam cleaned at a thickness of 9mm
- Seamless and hygienic finish
- Contains a unique antimicrobial additive
- Excellent chemical resistance
- Resistant to thermal shock
- Low odour during installation

Uses

Used in heavy duty applications in food processing, medical facilities, dairies, beverage factories, cold stores etc that require a non slip finish that withstands thermal shock.

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Compressive strength (ASTM C109)	>55 MPa
Flexural strength (ASTM C580)	>14 MPa
Tensile strength (ASTM D638)	>6 MPa
Abrasion resistance (ASTM D4060 1000g/ 1000r CS17)	<0.1g

Application Properties

Application thickness	6 to 12mm
Application temperature range	5 to 30C
Pot life	20C 30C 90 min 60 min

Cure Time at 20C

Light traffic	8 to 12h
Light wheeled traffic	16 to 18h
Heavy duty traffic	24h
Full cure	3 to 5d

Operating Temperature

-15C to +95C

Volatile Organic Content

VOC = <5 g/L

Chemical Resistance

Excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

Theoretical Coverage

X-Tech UraFloor TF: 2m² per 34.5 kg pack at 9mm thick.

X-Shield SF Primer: 8 m² per kg.

X-Shield MT Primer: 6 m² per kg.

Packaging

X-Tech UraFloor TF: 34.5 kg pack

X-Shield SF Primer: 5 kg packs

X-Shield MT Primer: 5 kg packs

Shelf Life

12 months when stored at 25C or less in a frost-free, dry and shaded area.

Application Guidelines

X-Tech UraFloor TF should be applied by experienced coating crews. 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

It is essential that adequate preparation is carried out prior to the application of X-Tech UraFloor TF.

Grit blasting is recommended and must result in the removal of all laitance, grease and oil. The resultant surface should be dry and dust free.

Priming

The prepared surface should be primed with X-Shield SF Primer or X-Shield MT Primer. The contents of the hardener component should be emptied into the contents of the base component and stirred with a spatula until the product appears uniform. The mixed primer should then be applied to the prepared substrate with a stiff brush or roller at a wet film thickness of 100 to 150 microns. Do not over apply or allow puddles of primer to form. If the primer is absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free. Immediately after application of the primer broadcast X-Shield AntiSlip Grain (M) on the surface of the primer at a rate of approximately 200 to 250g/m².

Application of X-Tech UraFloor TF can commence any time within 24 hours of the primed surface being touch dry.

Mixing

Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is re-dispersed. Thoroughly scrape the contents of the liquid colour component into the brown hardener component and mix for a minimum of 1 minute or to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary drum mixer and the aggregate component added in stages, mixing until a lump free consistency is obtained. Apply to pre-primed areas and level with a pin rake as necessary and lightly touch up with a trowel.

Application

Immediately after mixing apply X-Tech UraFloor TF, spread out and compact using a steel trowel .

Cleaning

Clean with X-Shield Solvent S before the product has cured.

Limitations

Application Temperature Range

Minimum: 5C

Maximum: 30C unless material is kept cool prior to mixing

Maximum moisture content of substrate 10%

Do not be apply within 3C of the dewpoint or if it is within 5C of the dewpoint and dropping.

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 of 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.