

X-Tech CrystalClear

Solvent free clear coating, sealer and binder

Product Description

X-Tech CrystalClear is a clear high performance, solvent free, epoxy coating/sealer and is also suitable for use as a binder and sealer for decorative floor systems.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- High abrasion resistance
- VOC compliant
- Easy to clean and maintain

Uses

- Decorative walls and floors
- Binder for coloured aggregate floor and wall systems
- Sealer for epoxy and polyurethane systems

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Compressive strength (ASTM C109)	>60MPa
Flexural strength (ASTM C580)	>30MPa
Impact resistance (ASTM D2794)	No cracks
Bond to concrete (BS 1881)	> 2MPa

Application Properties

Dry film thickness	100 microns to 5mm
Pot life	60 minutes at 25C
Recoat time	24 hours at 25C
Full cure	7 days at 25C

Volatile Organic Content

VOC = <20 g/L

Theoretical Coverage

1m² per liter at 1mm.

Packaging

5 and 20 Kg packs

Shelf Life

18 months when stored below 30C under shade in a dry environment.

Installation Guidelines

Application

X-Tech CrystalClear should be applied by experienced personnel. NCC X-Calibur provides detailed method statements for 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 substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes should be filled with X-Shield BugFill or other suitable filler. The moisture content of the concrete should be less than 5%. The concrete slab on which the coating is to be applied should have a waterproofing system installed.

No preparation is required when applying as a topcoat for epoxy's or polyurethanes provided it is applied in the over coating window.

Mixing

Mix X-Tech CrystalClear using the following technique. Add the hardener into the base and mix using a slow speed drill with an X-Shield Coating Mixer Paddle for 3 minutes until both components have fully dispersed and are uniform. Be sure to rotate the mixer. Mix only full packs.

Application

Apply using brush, roller or spray. Recoat within 24 hours at 25C or as required. Clean equipment using X-Shield Solvent S.

Slip Resistant Finish

A slip resistant finish can be achieved by broadcasting X-Shield AS Grains on to the surface of the first coat while still wet. The grain size (Fine, medium or coarse) and broadcast rate will be dependant on the surface texture required by will generally be in the range of 0.5 to 2kg/m². X-Tech Colored aggregate can also be used to provide a decorative floor.

Limitations

May change color in when exposed to direct sunlight.
Do not apply below 5C
Avoid skin contact.
Do not discard into the water system.
Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.

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 product. 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.