



# X-Tech LevelCem SL

## Fast dry polymer modified self leveling cementitious underlay

### Product Description

X-Tech LevelCem SL is a rapid hardening self-leveling, single component cementitious underlay. The product has been specially formulated to produce a smooth crack free flat surface while being very easy to use.

### Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Accepts foot traffic in 2 hours.
- Reinstate large areas fast
- Dimensionally stable.
- Single component product.
- Installation can be carried out in a single application.
- Can be applied directly onto prepared concrete surfaces.
- Eliminates the need for sand and cement screeds.
- Floor covering may be applied same or next day.
- Reduces load when replacing screed.

### Uses

- Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquet, linoleum etc.
- Leveling course for self-leveling epoxy floors.

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Laboratory Test Data

Property	Typical Results		
	1 day	3 days	28 days
Compressive Strength	20MPa	25MPa	35MPa
Flexural Strength	2MPa	3MPa	5MPa

### Application Properties

Application Temperature	5 to 35C
Max temperature of mixed material	30C
Application Thickness	3 to 15mm 30mm trowel application
Working Time	20 minutes at 25C
Traffic Time	4 hours at 25C
Min. Overlay Time	18 hours

### Volatile Organic Content

X-Tech LevelCem SL = <10g/L  
X-Tech LC Primer = <10g/L

### Water Content

4 to 4.5 liters per 25kg bag.

### Theoretical Coverage

14m<sup>2</sup> (14 liters) per 25kg bag per 1mm thickness.

### Packaging

25 kg bags.

### Shelf Life

12 months in sealed biodegradable plastic bags.  
6 months in paper 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

Ensure the concrete substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) materials. Excess adhesive or laitance should be removed by light scrubbing or mechanical captive shot blasting or grinding, followed by vacuuming to remove debris and dust. Large cracks or holes may be filled using equal parts of X-Tech LevelCem SL and clean fine sand made up to a trowellable consistency. New concrete floors must be at least 14 days old.

### Priming

Prime using X-Tech LC Primer applied at 8 to 10m<sup>2</sup>/per liter or until fully absorbed. The primer must be tacky before applying X-Tech LevelCem SL. Approximate drying time for the primer is 40 to 60 minutes at 20°C. Extremely porous substrates may require a second coat of primer to avoid pinholes or bubbles appearing in the finished surface. If a second coat is required allow the first coat to dry prior to application of consecutive coat. Do not allow dust film to cover the primed area prior to application of X-Tech LevelCem SL. If this occurs the area must be re-primed prior to proceeding with application of X-Tech LevelCem SL.

For concrete substrates that contain greater than 5.5% moisture content or are subject to rising damp or moisture, X-Shield VaporStop should be used as moisture barrier in place of X-Tech LC Primer.

### Mixing

Mixed with a forced action mixer or using a X-Roc Mixing Paddled fitted to a heavy-duty electric mixing drill capable of mixing between 400 to 600 rpm. Add the pre-measured water to a clean mixing bucket. Gradually add X-Tech LevelCem SL into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bag have been added to the water, mix for a further two minutes to produce a smooth homogenous consistency. Do NOT mix by hand. Do NOT add excess water. Discard any X-Tech LevelCem SL that has hardened or stiffened in the mixing bucket. Further addition of water will NOT reconstitute a useable mixture.

### Application

Pour the mixed material on the primed substrate and allow material to seek its own level. X-Tech LevelCem SL may be spread with a steel trowel, pin screed or notched spreader. Keep the trowel slightly inclined to obtain desired thickness. When the material has been spread to the required thickness the surface should be rolled quickly with a spiked roller to release any air and produce a smooth level surface. To ensure uniform consistency and uniform continuous flow application of X-Tech LevelCem SL, it is advised that subsequent mixes are ready to enable continuous pouring until the area to be leveled is complete. Protect the finished areas from damage until X-Tech LevelCem SL has set. For large areas X-Tech LevelCem SL is best applied using a mechanical pumping system.

For small areas and where falls are required X-Tech LevelCem SL can be applied at a trowel consistency to a maximum thickness of 30mm.

### Curing

No special curing is required, to avoid too rapid drying protect from direct sunlight or drying winds during actual application, and while curing for up to 12 hours. Cure with X-Roc BondCure if temperature rises above 35C after application.

### Clean Up

X-Tech LevelCem SL should be removed from tools and equipment with clean water immediately after use.

### Limitations

Do not mix by hand or add excess water.  
Do not add water to the product after it has started to stiffen.

Any product that has not been placed whilst still fully fluid, should be discarded.

Protect from direct sunlight and wind.  
Do not be use in areas subject to moisture.  
Do not use as a wearing surface or as a waterproofing layer.

If substrate moves or cracks, reflective cracking will occur in the product.

Perform a moisture check before applying coverings within 24 hours.

New concrete surfaces must be at least 14 days old prior to application.

Discolorations, minor surface imperfections and small bubbles do not effect the performance of the product as a self leveling underlayment.

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



Quality Statement  
All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004 , ISO 9001:2000.



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