

# X-Shield UraFloor SL

## Self leveling polyurethane flooring

### Product Description

X-Shield UraFloor SL is a medium duty, flow applied, self-smoothing polyurethane floor topping, which provides a surface with excellent resistances to abrasion, chemical attack and other forms of physical aggression.

X-Shield UraFloor SL is a seamless, smooth finish with uniform colour based on water dispersed polyurethane resin combined with reactive polyurethane hardener and graded silica aggregates.

### Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Resistance to abrasion
- Highest order of durability
- Resistant to impact and chemical attack.

### Uses

X-Shield UraFloor SL is ideally suited to areas subject to heavy duty use such as:

- Food processing/wet areas
- Brewing/dairy clean areas
- Chemical processing
- Engineering processing areas

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Laboratory Test Data

| Property                              | Typical Results |
|---------------------------------------|-----------------|
| Compressive strength (BS 6319 Part 2) | >60             |
| Tensile strength (BS 2782:320D)       | >11             |
| Flexural strength (ASTM D790)         | >30             |

### Application Properties at 20C

|                              |        |
|------------------------------|--------|
| Usable life of full unit/mix | 20 min |
| Cure time to:                |        |
| Light pedestrian traffic     | 24 h   |
| Heavy duty traffic           | 48 h   |
| Full cure                    | 5 d    |

### Volatile Organic Content

VOC = 23 g/L

### Chemical Resistance

X-Shield UraFloor SL has excellent resistant to organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents.

### Theoretical Coverage

X-Shield UraFloor SL - 3.63 kg/m<sup>2</sup> at 2mm.  
X-Shield SF Primer - 10m<sup>2</sup>/L

### Packaging

X-Shield UraFloor SL - 12 L  
X-Shield SF Primer - 1 and 5 L

### Shelf Life

When stored in a cool environment, in original unopened containers, the material has a shelf life of 12 months.

### Application Guidelines

X-Shield UraFloor SL 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-Shield UraFloor SL.

Grit Blasting is recommended to ensure the removal of all laitance, grease and oil. The resultant surface should be dry and dust free. Cracked and damaged areas must be made good with appropriate repair materials.

It is recommended that the edges of the floor areas adjoining the walls are rebated to produce a cross-section of 20mm deep by 6mm wide, running at 150mm from and parallel with the walls.

### Priming

Priming of all surfaces should be undertaken with X-Shield SF Primer. The primer should be allowed to cure for a minimum of 16 hours prior to application of the X-Shield UraFloor SL. (Maximum overcoating time at 20C -48 hours).

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In order to ensure a minimum film build of 2mm is maintained and also minimize wide variations in applied product film thickness, it is recommended that floors with notable variations on profile or level are scratch-coated with X-Shield BugFill prior to application of X-Shield UraFloor SL.

### **Mixing**

X-Shield UraFloor SL is a three-component product. Pre-mixing of the coloured liquid component is recommended to ensure any light settlement is reincorporated. Thoroughly drain the contents of the hardener component and mix for a minimum of one minute to provide a homogeneous mix. The resultant mixture should then be loaded into a rotary compulsory drum mixer and the aggregate component added in stages, mixing until a lump-free, smooth mix is obtained.

### **Application**

Apply X-Shield UraFloor SL to pre-primed areas, levelling to the required thickness with a steel trowel aided by a spiked roller. Spiked rolling should be effected within three minutes of application in order to avoid interfering with the flow and film gel times.

### **Cleaning**

Clean all tools and equipment immediately before and after use with X-Shield Solvent S.

### **Limitations**

Application Temperature Range

Minimum: 5C

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

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](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**

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. 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 X-Calibur in writing within five working days of being detected. X-Calibur Construction Systems 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.** X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.