

Formerly known as
X-Shield UraFloor SL

Technical Data Sheet



30790415

X-Tech UraFloor SL

Self leveling polyurethane flooring

Product Description

X-Tech 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-Tech 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-Tech 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 (ASTM C109)	>60 MPa
Flexural strength (ASTM C580)	>30 MPa
Tensile strength (ASTM D638)	>10 MPa
Abrasion resistance (ASTM D4060 1000g/1000r CS17)	<0.1g

Application Properties at 20C

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

Fire Performance

UK Building Regulations (Document B): Class O
BS 476 Part 7: Class 1 Surface Spread of Flame

Service Temperature

-5 to 75C

Volatile Organic Content

VOC = <25 g/L

Chemical Resistance

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

Theoretical Coverage

X-Prime SF - 10m²/L
X-Tech UraFloor SL - 2L/m² at 2mm.

Packaging

X-Prime SF - 1, 5 and 15L packs
X-Tech UraFloor SL - 12L pack

Shelf Life

12 months when stored between 10 to 35C under shade in dry conditions.

Application Guidelines

X-Tech UraFloor SL should be applied by experienced coating crews. 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 substrate must be structurally sound. Loose or un-sound 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 captive blasting to produce a lightly exposed aggregate surface i.e. a ICRI CSP 4 or 5 surface profile. Any bug holes (blow holes) should be filled with X-Shield BugFill. If substrate is not level or is uneven, level using X-Tech LevelCem HD.

Moisture Testing

The concrete slab should be tested for moisture with the Rapid RH system following the procedure in ASTM F2170. If the humidity reading is greater than 80% then conduct moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. (Both test kits are available for purchase from X-Calibur). If the MVER is under 3lbs/1000ft²/24h use X-Prime SF. If the MVER is 3 to 5 lbs/1000ft²/24h use a single coat X-Prime MT100 at 165 microns wft. If the MVER is 5 to 12 lbs/1000ft²/24h use two coats of X-Prime MT100 at 200 microns wft per coat.

Priming

The base and hardener have to mixed using a slow speed drill and approved mixing paddle until homogenous. The mixed primer should then be applied to the prepared substrate with a stiff brush or roller. 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. Allow the primer to become tack-free before application of the layer. Apply next layer within 24 hours of priming.

Mixing and Application of X-Tech UraFloor SL

Both of the base and hardener components should be briefly stirred to ensure that any settlement products are fully suspended. Mixing should be carried out using a forced action mixer such as a Mixit 25 (mixers are available to purchase or rent from X-Calibur). Mix the components until homogenous. Spread the mixed product onto the tack-free primer using a notched vee rake followed by a pin leveller set to achieve the required thickness. Immediately after spreading, roll using a spiked roller to release trapped air and remove trowel marks. Rolling should be completed within 20 minutes.

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.

If any dust is present during application "fish eyes" may occur.

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.x-calibur.us

Authorized Technical Specialist

Please note that only 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.x-calibur.us for a full list of X-Calibur ATSSs.

Datasheet Validity

X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.x-calibur.us 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 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.** X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.