



X-Tech UraSeal WDS

High performance water dispersed polyurethane sealer and anti-scratch coat

30480316

Product Description

X-Tech UraSeal WDS is a two component, high performance water dispersed polyurethane sealer and anti-scratch coat. The product is available as matt, gloss and soft feel effect and is resistant to abrasion, weathering and a wide range of chemicals. The product can be applied to existing epoxy and polyurethane coatings and floors and to underlayments, concrete screeds and slabs.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Primerless to most substrates
- Color stable
- Easy to apply
- Chemical resistant
- Excellent abrasion resistance
- Excellent scratch resistance

Uses

- Anti-scratch coat
- Protective top coat for decorative resin floors
- Dust-proofer for masonry and concrete surfaces
- Sealer for walkways and pool decks
- Sealer for screeds, renders and plasters and other finishes

Typical Properties

Volume solids	33%
Flexibility (Conical Bend) ASTM D522	Resistance to cracking 1/8" diameter
Abrasion resistance ASTM4060-90 CS17 1,000 cycles)	<30 mg loss

Chemical Resistance

Test Method ASTM D3912 (splash and spill)

Reagent	Rating
Hydrochloric Acid 10%	No effect
Gasoline	No effect
Acetone	No effect

Contact X-Calibur for specific advice on chemicals not shown above.

Application Properties

Application temperature	10 to 40C
Pot life	8 hours at 25C
Drying time	8 hours at 25C
Foot traffic	10 hours at 25C
Recoat window	10 to 24 hours at 25C

The above properties at 50% relative humidity will change depending on the relative humidity at time of application. Please refer to the method statement for more detail.

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Fire Performance

UK Building Regulations (Document B): Class 0
BS 476 Part 7: Class 1 Surface Spread of Flame

Service Temperature Range

5 to 65C

Volatile Organic Content

VOC = <100 g/L

Color

Clear

Coverage

Between 8 to 12 m² per liter per coat to give a wet film thickness of 80 to 125 microns per coat.
The actual cover may vary depending on the density and porosity of the substrate.

Packaging

8 liter pack.

Shelf Life

12 months when stored at 25C or less in a dry and shaded area. Protect from freezing.

Installation Guidelines

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 Concrete Slabs

Surface preparation is a most vital aspect of resin flooring application. Inadequate preparation could reflect in the finish and can also lead to loss of adhesion and ultimately failure of the floor. The concrete 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 captive blasting to produce a lightly exposed aggregate surface i.e. a ICRI CSP 3 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. When applied to porous concrete prime using X-Prime WD.

Underlayments and Screeds

Provided the surface is homogenous, smooth and free from containments and laitance X-Tech UraSeal WDS can be applied directly to the surface without any additional preparation or priming. Over coating time will be dependent on the type of screed or underlayment.

Epoxy and Polyurethane New Floors

Apply within the re-coat window of the base coat. If the recoat window has been missed but is within 7 days wipe with X-Prime RSA (see separate datasheet) and apply X-Tech UraSeal WDS.

Epoxy and Polyurethane Old Floors

Abrade the surface to produce a rough to touch surface them wipe clean with X-Prime RSA and apply immediately. A bond test is recommended when over coating existing flooring systems.

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

Pour all of the Part B into Part A and mix for 2 to 3 minutes until homogenous using a suitable slow speed drill and mixing paddle, allow to stand for 2 minutes. After the 2 minute induction time apply the product.

Application

Apply by brush, short-nap mohair roller, or airless spray. Two 80 to 125 micron coats are normally required. Allow first coat to dry for a minimum of 10 hours and a maximum of 24 hours at 25C before applying the final coat.

Clean Up

Clean all equipment with water immediately after use. Clean any splatters or spills with water before material dries. Once cured, the product will require mechanical removal.

Limitations

Do not be apply within 3C of the dew point or if it is within 5C of the dewpoint and dropping.
Do not apply in rain or wet conditions,
Avoid skin contact.
Do not discard into the water system.
Do not add paint thinners, solvents, or any additives.

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 ('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.x-calibur.us for a full list of X-Calibur ATs.

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 over 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.