

X-Prime MT100

High performance moisture tolerant primer and sealer for coating and floor systems

201390317

Product Description

X-Prime MT100 is a high penetration primer suitable for use with a wide range of epoxy coatings and floor systems on substrates that have a high moisture content. It can also be used as a stand alone sealer for green concrete.

Advantages

- Low viscosity
- Penetrating
- Long pot life
- Enhances bond
- Stops out gassing
- Can be applied to green concrete.

Laboratory Test Data

| Property | Typical Results |
|---------------|----------------------|
| Volume solids | 100% |
| Pot life | 1 hour at 25C |
| Touch dry | 4 hours at 25C |
| Recoat time | 6 to 24 hours at 25C |

Volatile Organic Content

VOC = < 10g/L

Theoretical Coverage

5 to 7m² per liter.

Actual coverage will depend on wastage and surface profile and can be up to 30% or more higher than theoretical coverage.

Packaging

5 and 15 liter packs

Shelf Life

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

Application Guidelines

Epoxy coating and floor systems 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

Concrete

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 grit or high pressure water blasting to produce an exposed aggregate surface and any bug holes and cracks. Bug holes and cracks should be filled with X-Shield BugFill after application of the X-Prime MT100. The substrate should not have dry surface water and should have been made as dry as possible using compressed air and heaters as necessary. Whenever coating is applied to moisture containing substrate there is a risk of adhesion failure. It is essential that a trial area be carried out at the adhesion tested before commencing work.

When applying to green concrete, the concrete should have reached initial set and no standing water should be present.

Steel Deck

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 steel substrate must be structurally sound.

Surface 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 minimum of SSPC SP10 with an anchor profile of 75 microns.

X-Prime MT100 is to applied immediately after blasting.

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.

Mixing

Mix X-Prime MT100 using the following technique. Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (500 rpm) with an X-Shield Approved Mixer Paddle for 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

Priming

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 the second application. Apply next layer within 24 hours of priming.

Limitations

Will change color when exposed to direct sunlight.
Will not accommodate movement cracks.
Do not apply below 5C.
Avoid excessive application.
Avoid skin contact.
Do not discard into the water system.

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 ATSS.

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.