X-CALIBUR CONSTRUCTION CHEMISTRY

Technical Data Sheet

X-Prime GP

General Purpose primer for epoxy coating and floor systems

201450216

Product Description
X-Prime GP is a high penetration primer suitable for use with a wide range of epoxy coatings and floor systems.

Advantages
- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- High solids
- Penetrating
- Enhances bond
- Stops out gassing
- Damp tolerant
- Easy volume ratio 1:1

Specification Compliance
SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Volume solids	90%
Specific gravity	1.0 ± 0.05
Pot life	50 mins at 25C (77F)
Touch dry	3 to 4 hours at 25C (77F)
Recoat time	6 to 24 hours at 25C (77F)

Volatile Organic Content
VOC = <100 g/L

Theoretical Coverage
5m² per liter at 200 microns,
10m² per liter at 100 microns

Actual coverage will depend on absorption, substrate type, wastage and surface profile and can be up to 50% or more higher than theoretical coverage.

Packaging
18, 40 and 400 liter packs

Shelf Life
18 months when stored below 30C (86F) 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
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 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 or X-Tech Primer Filler.

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/1000ft^2/24h a single coat can be used. If the MVER is 3 to 5 lbs/1000ft^2/24h use two coats at 150 microns wft per coat. If the MVER is over 5lbs/1000ft^2/24h use with X-Shield VaporStop HB in conjunction with X-Prime GP.

Mixing
X-Prime GP is a 1:1 volume ratio product. Mix using the following technique. Add one part of hardener into one part of base and mix using a slow speed drill (500 rpm) with an X-Shield Coating Mixer Paddle for 3 minutes or until both components have fully dispersed and are uniform. Be sure to rotate the mixer throughout the drum.

Application
Apply a single coat of 100 micron to 200 microns wet film thickness using brush, roller or airless spray. When using airless spray, tip size should be 0.015" to 0.018" at a pressure of 2200psi. Allow to dry before over coating. Ensure that no ponding of the primer occurs and that it is not applied too thick. Recoat after 6 to 24 hours at

25C (77F). If the primer is left to dry for more than 24 hours the surface will have to be re-primed. Porous substrates may require a two coat application. Clean equipment using X-Shield Solvent S.

Limitations
Will not accommodate movement cracks.
Do not be apply within 3C of the dewpoint or if it is within 5C of the dewpoint and dropping.
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.

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