

THE  
**BEST CHEMISTRY**  
FOR CONSTRUCTION WORLDWIDE

# X-CALLIBUR

CONSTRUCTION CHEMISTRY



## Product Menu



## **A PROUD HISTORY**

### **An Established Dynamic Brand**

The X-Calibur brand was established in 2004 in the USA. With international expansion in Hong Kong and the Middle East in 2006 we acquired companies with a long track record. Our acquisition of 50% of QED Chemicals Limited gave us a pedigree in concrete repair and protection going back 30 years. This track record and long history has enabled X-Calibur to become an internationally recognized and respected brand in the construction industry

## **LATEST TECHNOLOGY**

### **Strong New Product Development Team**

We have a strong focus on using new technologies for new products and to upgrade and improve existing products. We partner with leading global chemical producers to innovate using the latest chemistries. We are constantly testing and evaluating exciting new raw materials to increase performance and deliver value to our customers.

## **STRONG ENGINEERING SKILLS**

### **We Understand Your Business**

We understand civil engineering and construction better than our competitor we are not just chemists we are civil engineers as well. This allows us to fully understand the end use and develop products and integrate systems including application equipment and techniques that offer substantial cost and time savings. Our technical service is world class.

## **AN INTERNATIONAL REACH**

### **Our Products Are Used In Over 40 Countries**

From LNG plants in Papua New Guinea, an international airport in Panama, to the world's tallest building in the UAE and throughout every continent we help contractors and owners deliver their projects on budget and on time. With 9 manufacturing facilities and 4 subsidiaries and 12 distributors we have a focused international.

## **A COMMITMENT TO SUSTAINABILITY**

### **We Are A Leader**

We are committed to real sustainability we continue to innovate in this key area of our business. Some of our first industry initiatives include use of RECs (Renewable Energy Credits) in production, first construction chemical company to join USGBC, pioneer in the use of biodegradable plastic packaging, new zero waste production, development of mini production plants to reduce carbon generated through transportation. These are just a few of our sustainability initiatives.

**X-Calibur. The name for Expertise.**

## CONCRETE REPAIR

### Cementitious Mortars

#### X-Roc CrystalPatch

Fast setting cementitious crystalline waterproofing repair mortar



**Uses:** For use with X-Pruf CrystalCoat and X-Roc WaterPlug to make permanent watertight repairs.

#### X-Roc CrystalPlug

Ultra fast setting cementitious crystalline water stopping mortar

**Uses:** To stop running water in leaking joints, form tie holes, cracks, kickers, honeycombed concrete, manholes, House connections, water tanks.

#### X-Roc DrySpray 50

Fiber reinforced dry spray repair mortar

**Uses:** Large volume sprayed concrete repairs, such as marine structures, bridges, car parks and industrial facilities.

#### X-Roc MicroCrete

High strength multipurpose low shrinkage fluid microconcrete

**Uses:** Large volume structural repairs, partial or full depth replacement of structural concrete elements such as beams, columns and balcony edges.

#### X-Roc PileCap C

Fluid applied re-profiling mortar for pile caps

**Uses:** Re-profiling of pile caps to provide a uniform smooth surface prior to the installation of waterproofing systems.

#### X-Roc SlabPatch

Rapid setting low shrinkage slab reinstatement mortar

**Uses:** Horizontal applications requiring high early strength gain. Industrial floors, parking decks, bridges, airport runways and balcony edges.

#### X-Roc SprayMortar 50PM

Polymer-modified low dust silica fume enhanced mortar

**Uses:** High performance formulated for machine application using dry process shotcrete equipment.

#### X-Roc StrongPatch

High strength multipurpose low shrinkage repair and overlay mortar

**Uses:** Full depth structural repairs, interior or exterior horizontal surfaces. Resurfacing and overlaying of parking decks, walkways and bridges.



X-Calibur has supplied a wide range of products to projects on the Jumeirah Palm Island in Dubai.

**X-Roc UltraPatch**

Lightweight low shrinkage repair mortar

**Uses:** Structural concrete repairs, overhead and vertical applications. Columns and beams. Applications requiring exceptional chloride and carbon dioxide resistance.

**X-Roc WaterPlug**

Ultra fast setting water stopping mortar

**Uses:** Stoppage of water leaks in water retaining and water excluding structures.

Most X-Roc cementitious repair mortars can be supplied with integral chloride inhibitors if required by the project specification.

**Resin Mortars****X-Roc PileCap E**

Epoxy based pile cap restoration and waterproofing encapsulation grout

**Uses:** Provides a totally waterproof pile cap compatible with a wide range of waterproofing systems to provide a continuous water proofing barrier.

**X-Roc ResiCrete LWE**

High build low slump epoxy mortar

**Uses:** Structural concrete repairs, overhead and vertical applications. Columns and beams. Applications requiring high early strength, high build and abrasion resistance.

**X-Roc ResiCrete PE**

High strength ultra fast cure multi-purpose repair mortar and adhesive

**Uses:** Fast setting repairs and bedding of precast units, pavers, curb stones.

**X-Roc ResiCrete S**

High strength epoxy mortar

**Uses:** Structural concrete repairs, grouting and lining mortar.

Applications requiring high early strength, abrasion and chemical resistance.

**Waste Water Restoration Mortars****X-Roc ResiCrete MH**

High strength chemical resistant epoxy lining mortar

**Uses:** Repairs and relining of manhole benching bedding of manhole frames.

**X-Roc WaterPlug II**

Very fast setting hydraulic cement mortar

**Uses:** Designed for sealing and plugging water leaks in water and waste water structures.



X-Tile TBA and WJF were used on the Al Rayyan Project in Doha, Qatar.



X-Roc CemScreed RFR was used for the Crowne Plaza Convention Center at Dubai Festival City.

### **X-Roc WetSpray B50**

Single component fiber and microsilica modified mortar for below grade applications

**Uses:** Repair of Manholes and wet wells, pipelines & wastewater structures

## **Bond, Cure and Reinforcement Protection**

### **Margel VPI 580**

Vapour Phase Corrosion Inhibitor

**Uses:** The tape used to wrap the pipe is proven in the petrochemical and cryogenic industries as a vapour barrier closure system. With the Margel™ migrating corrosion inhibitor the combined product is extremely effective in combating Corrosion Under Insulation (CUI).

### **X-Roc BondCure**

Combination acrylic primer and curing compound

**Uses:** Bonding agent for use in high temperatures and windy conditions.

### **X-Roc CemEpoxy**

Solvent-free epoxy-modified cementitious coating and bonding agent

**Uses:** As an anti-corrosion coating for reinforcing steel in concrete restoration. As added protection to reinforcing steel in areas of thin concrete cover. As a bonding agent for repairs to concrete and steel.

### **X-Roc EpoxyBond**

Combination epoxy primer and reinforcing steel protection

**Uses:** Bonding agent for immersed conditions. Protects rebar from corrosion. Anti-chloride barrier to prevent ingress of chloride to the repair.

### **X-Roc GalZinc**

Epoxy zinc providing galvanic protection to reinforcing steel

**Uses:** Extends the life of patch repairs in concrete in the repair zone and adjacent areas. Protects rebar after grit blasting.

### **X-Roc Latex or MultiBond LX**

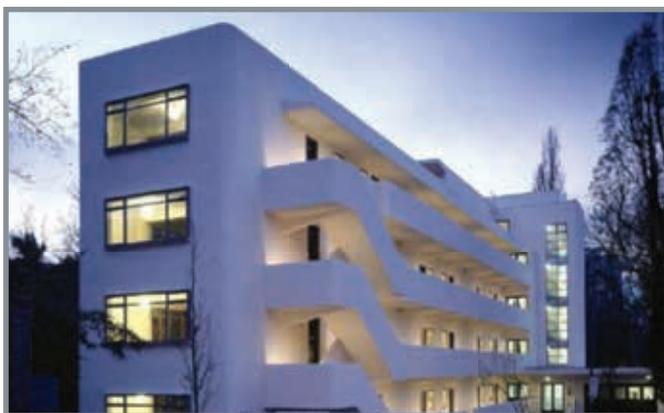
Multipurpose primer and mortar additive

**Uses:** Multi purpose bonding agent and performance enhancer for screeds and mortars.

### **X-Roc MultiBond PVA**

Multi purpose PVA bonding agent, adhesive and admixture

**Uses:** Bonding agent for cement based mortars, screeds, render and concrete. Bonding agent for gypsum based plasters. General purpose wood adhesive. Sealing and priming of plaster and gypsum board prior to internal paint.



Vapor Phase Corrosion Inhibitors, Isokon Building London

## Finishing Products

### X-Roc SkimCoat

Cementitious fairing and reprofiling mortar

**Uses:** *Re-profiling of spalled and deteriorated surfaces.*

## COATING SYSTEMS

### High Performance Polyurea Systems

#### X-Shield FS200

High abrasion resistant pure polyurea coating

**Uses:** *Waterproof membrane resistant to vehicular traffic, protection against abrasion – above and below ground and underwater, primary and secondary containment, ramps, parking decks, industrial flooring, food processing areas, helicopter landing pads and pipelines and culverts*

#### X-Shield FS450

Fast cure highly elastic polyurea membrane and coating

**Uses:** *Primary and secondary containment of waste water, hydrocarbons and industrial chemicals. As a general purpose high elongation waterproofing membrane or coating.*

#### X-Shield RG40 and RG40HB

High build roller grade UV resistant polyurea coating

**Uses:** *Color stable fast setting abrasion resistant coating. It can be roller or spray applied on horizontal and vertical surfaces. Used as a skid resistant coating with the addition of a broadcast aggregate. Also as a topcoat for any X-Shield polyurea or epoxy products. High build grade available. Slower setting single component version available.*

## Primers

#### X-Shield CR Primer

Anti-corrosion chlorinated rubber primer

**Uses:** *Water and chemical resistant primer for chlorinated rubber coating systems.*

#### X-Shield Primer AR

Alkali resistant primer

**Uses:** *Surface stabilizing and penetrating alkali resistant primer for acrylic coatings.*

#### X-Shield Primer ZRE

Two component zinc rich epoxy primer for structural steel

**Uses:** *Priming and protection of structural steel prior to receiving top coats.*

## Chloride Ingress & Carbonation Protection

### X-Shield AntiCarb C

Water based aliphatic carbonation resistant clear coating

**Uses:** Clear UV stable clear coating for protection of concrete against carbonation and chloride ingress.

### X-Shield AntiCarb S

Water based aliphatic acrylic carbonation resistant decorative coating

**Uses:** General purpose pigmented UV stable coating for protection of concrete against carbonation and chloride ingress. For use on buildings and reinforced concrete structures.

### X-Shield AntiChloride W

Water based silane siloxane concentrate

**Uses:** Improves water repellency and reduces chloride diffusion into concrete. Can be applied at high ambient temperatures.

### X-Shield FillCoat

High build water dispersed polymer bug hole filler and skim coat

**Uses:** Filling of bug holes and surface conditioning of concrete and plaster surfaces prior to the application of water dispersed coatings.

## Epoxy and Polyurethane Coatings

### X-Shield BugFill

Epoxy based fairing coat and bug hole filler

**Uses:** Filling of bug holes and voids in concrete. Vertical and horizontal applications. Can be used as a binder for sag resistant epoxy mortar.

### X-Shield EpoxySeal CR

Chemical resistant high build epoxy coating

**Uses:** Internal coating of concrete structures exposed to mild chemical attack.

### X-Shield EpoxyLock EPN

High chemical resistant epoxy novalac coating

**Uses:** Coating of concrete and steel subject to highly aggressive chemicals.

### X-Shield EpoxySeal PW

Non toxic high build potable water grade epoxy coating

**Uses:** Coating of concrete and steel water retaining structures and pipelines.

### X-Shield SealCoat PW

Potable water grade water dispersed epoxy seal coat and primer

**Uses:** As a seal coat for concrete tanks and concrete and cement lined pipes. Also used as primer for porous concrete substrates prior to application of X-Shield EpoxySeal PW.

### X-Shield TarEpoxy 72

High performance coal tar epoxy coating for concrete and steel

**Uses:** Protection of concrete and steel in aggressive environments such as marine structures, bridge piers, pile caps, sheet piles, basements and storage tanks.

### X-Shield TarEpoxy 100

High performance coal tar epoxy coating for concrete and steel

**Uses:** Fast cure, solvent free version of X-Shield TarEpoxy 72.

### X-Tech EpoxyAqua 100

High performance wall and floor coating for concrete

**Uses:** Food preparation areas, Kitchens, Pharmaceutical plants, Water tanks and pipes, Food and beverage facilities, Showrooms, Stairwells, Protection of concrete structures, Car parks

## General Purpose Waterproof Coatings

### X-Shield EpoxyLock HS

High solids low VOC anti-corrosion epoxy coating for steel

**Uses:** Long term internal & external protection of steel, maintenance coating for all corrosion problems, protection from chemical splashes and air borne chemicals, protection of marine structures where salts exacerbate corrosion and external protection of pipes including bi-metallic corrosion caused by welding.



X-Shield EpoxyLock HS used for general maintenance on PSA Cranes, Singapore

### X-Shield AcrylCoat

Single component elastic acrylic waterproof coating

**Uses:** Wet area waterproofing, metal and fiber cement, roof restoration, roof waterproofing and exterior coating.

### X-Shield ProCoat

Single component aliphatic hybrid polyurea coating for roofs walls and decks

**Uses:** As a high performance UV stable white reflective coating to waterproof existing roofing systems, balconies and pedestrian walkways. The cured coating will resist ponded water.

### X-Pruf ProFlex One

Single component hybrid polyurea waterproof base coat

**Uses:** As an elastomeric crack bridging waterproof base coat for roof and slab restoration.

### X-Shield ThermoStop

Water based acrylic coating system incorporating heat reflective ceramic spheres

**Uses:** Protection of roof substrates from solar heat. Developed to extend the life of a wide range of roofing substrates.

### X-Shield Cement Paint

Single component general purpose masonry paint

**Uses:** General purpose single component exterior coating where a cement/masonry type finish is required.

### X-Shield FlexCoat

Two component polymer modified flexible cementitious coating

**Uses:** To re-profile, seal and waterproof concrete and masonry structures. High strength and abrasion resistance. Excellent chloride resistance.

### X-Shield FlexCoat One

Single component polymer modified cement coating for concrete

**Uses:** To re-profile, seal and waterproof concrete in situations subject to high back pressure with low movement. Can be used in conjunction with X-Shield FlexPruf over cracks in high back pressure applications.

**X-Shield FlexPruf**

Two component polymer modified elastic cementitious coating

**Uses:** To waterproof wet areas, water tanks and swimming pools. High elongation.

**Sealers****X-Tech HardSeal A**

Water dispersed surface sealer and dustproofer for concrete surfaces

**Uses:** Easy to apply concrete surface sealer producing a hard wearing dust proof satin surface.

**X-Tech PaveSil**

Penetrating water dispersed silane siloxane sealer for concrete brick and stone pavers

**Uses:** Long term protective water repellent for paving.

**X-Shield StainBlock Sealer**

Stain resistant water dispersed fluorochemical penetrating sealer

**Uses:** Floors, walkways, Brick pavers, Parking decks, Tiles and tile grouts, Precast concrete, Driveways, Pool decks, Balconies & Tilt up walls.

**X-Shield StoneSeal**

Penetrating water based silane sealer for masonry and stone

**Uses:** Improves water repellency and reduces salt ingress into masonry and stone.

**Coating Accessories****X-Shield CrackMat**

High performance crack treatment for use beneath coating systems

**Uses:** Prevention of reflective cracking in coating systems applied over cracks.

**X-Shield Lamination Fabric**

Glass fiber lamination fabric for epoxy coatings.

**Uses:** Reinforcing of X-Shield epoxy coatings to improve tensile and flexural strength.

**X-Shield Reinforcing Fabric**

Reinforcing fabric

**Uses:** Corner and joint reinforcement. Used primarily with X-Shield FlexCoat, X-Shield FlexPruf and X-Pruf Liquid Applied Membranes.

**X-Shield Surface Tissue 30**

Surface reinforcing fabric for epoxy coating systems

**Uses:** Light duty fabric used as a finishing layer in multi layer laminated epoxy systems or on its own for light duty applications.



X-Shield fast cure coating systems were used to coat the Burj Khalifa Lake. X-Seal FlamJoint and X-Tite EpoxyGrout 150 were used on the Dubai Fountain.

## FLOORING SYSTEMS

### Cementitious Systems

#### X-Tech CemScreed RFR

Ready-mix fiber reinforced cementitious screed

**Uses:** A consistent quality low shrinkage high strength floor screed to level uneven slabs prior to the application of final surface. Supplied in ready-mix trucks and can be pumped. Suitable for rapid large area screeding.

#### X-Tech CemScreed 421

Pre-bagged cementitious screed mix

**Uses:** Used with liquid polymers to produce a consistent quality floor screed to level uneven slabs prior to the application of final surface or replace damaged floor screeds.

#### X-Tech DecoCem FC

Polymer modified decorative cement finish coat for concrete

**Uses:** Horizontal and vertical concrete and masonry, potable water tanks, swimming Pools and resurfacing

#### X-Tech DecoCem PC

Polymer modified self leveling decorative polished overlay

#### X-Tech IntegraFloor Emery

Emery based monolithic floor hardening compound

**Uses:** Integral floor hardener to produce a highly abrasion resistance monolithic concrete surface that forms part of the concrete slab. Can be supplied in a range of colors.

#### X-Tech IntegraFloor Quartz

Quartz based monolithic floor hardening compound

**Uses:** Integral floor hardener to produce an abrasion resistant monolithic concrete surface that forms part of the concrete slab. Can be supplied in a range of colors.

#### X-Tech IntegraFloor S

Monolithic floor hardening compound

**Uses:** X-Tech IntegraFloor S is used to provide a hard wearing abrasion resistant surface. For use in situations such as, car parks, warehouse floors and production areas.



X-Shield ProCoat used to refurbish a PVC waterproofing membrane  
Radisson Hotel Nashville.

Can also be ordered through CemScreed Licensed  
Ready Mix Plants. Can also be supplied as an admixture  
concentrate.

### X-Tech LevelCem HD

High duty polymer modified cementitious floor leveling compound

**Uses:** Forklift trafficked floors, light industrial floors, car parks, walkways and pavements, high bay warehousing floors, garage and workshops and underlayment for vinyl sheet, tiles, carpets etc.

### X-Tech LevelCem SL

Polymer modified self leveling cementitious underlay

**Uses:** Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquet, linoleum etc. Leveling course for self-leveling epoxy floors.

### X-Tech LevelCem 24

Polymer modified self leveling cementitious underlay

**Uses:** Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquet, linoleum etc.

## Densifiers

### X-Tech ASG

High quality processed silica sands.

**Uses:** They are used with X-Calibur flooring and coatings systems to provide a non-skid finishes. They are also used to provide a suitable primed surface for the application of rowel applied epoxy and polyurethane floors by providing a keyed surface. Available in fine, medium and coarse grades.

### X-Tech Formula X

Advanced silicate based high performance hardener, sealer and densifier for concrete

**Uses:** Surface hardening of new and old concrete, dusting proofing of concrete, case hardener for pre-cast products, waterproofing of concrete surfaces, increasing abrasion and impact resistance & polished concrete



X-Tech Formula X System used at Bharat Benz Production Facility, India

### X-Tech HardSeal S

Surface hardener and dustproof for concrete surfaces

**Uses:** Surface hardening of new and old concrete. Can also be used as dust proofing of concrete and as a case hardener for pre-cast products.

## Resin Systems

### X-Tech AntiStatic CS

Conductive or dissipative epoxy coating system

**Uses:** X-Tech AntiStatic CS is used in light to medium duty industrial and commercial situations to provide an easy-to-clean coating finish in locations such as electronic manufacturing and assembly plants, hospitals, clean rooms, chemical handling and processing areas, utilizing hazardous dust and chemicals.

### X-Tech AntiStatic SLB

Conductive and dissipative breathable water based epoxy flooring system

**Uses:** Electronic manufacturing and assembly plants, Hospitals, Clean rooms & Chemical handling and processing areas.

**X-Tech AntiStatic SLE**

Conductive and dissipative solvent free epoxy flooring system

**Uses:** *Electronic manufacturing and assembly plants, hospitals, clean rooms & chemical handling and processing areas.*

**X-Tech CrystalClear**

Solvent free clear epoxy coating

**Uses:** *As a water clear high build coating and as a binder for colored aggregate floors.*

**X-Tech DeckCoat CP**

Aliphatic polyurethane anti-skid car park coating system

**Uses:** *High build flexible car park coating system that can be used in direct sunlight.*

**X-Tech DecoQuartz QB**

Durable and decorative two component quartz broadcast epoxy floor coating for concrete

**Uses:** *Heavy duty decorative non-slip industrial floors. Forms a seamless, colorful, chemical resistant and extremely long wearing floor. Used in food processing areas, schools, prisons and hospitals. Also in break areas and cafeterias, kitchens and produce preparation areas.*

**X-Tech DuraDeck**

Rapid setting skid resistant flexible epoxy overlay system

**Uses:** *Provides a lightweight and flexible very hard wearing skid resistant overlay for concrete ramps, decks, roads, industrial floors and bridges.*

**X-Tech DuraDeck ET**

Skid resistant epoxy tar overlay system

**Uses:** *Extremely hard wearing skid resistant surface for bridge decks, parking decks, ramps, airport taxi and runways.*

*Used for repairing asphalt substrates, accident hot spots. Also as a lightweight alternative to concrete and asphalt overlays.*

**X-Tech EpoxyAqua SL**

Water dispersed, breathable self-levelling epoxy floor

**Uses:** *X-Tech EpoxyAqua SL is used in industrial and commercial situations to provide an easy-to-clean floor finish in locations such as Food and beverage plants, pharmaceutical facilities, kitchens and laundries, hospitals and clean rooms*

**X-Tech EpoxyFloor SL**

Abrasion and chemical resistant self-leveling epoxy floor

**Uses:** *Provides a long lasting, durable, easy to clean floor surface for use in a variety of applications such as food and beverage plants, hospitals, pharmaceutical plants and laboratories.*

**X-Tech EpoxyFloor SLU**

High strength self-smoothing underlay

**Uses:** *Provides an economical method of levelling floors prior to laying epoxy screed, toppings or coatings such as X-Tech EpoxySeal FLR55, X-Tech EpoxySeal FLR100 and X-Tech EpoxyFloor SL.*



X-Tech EpoxyFloor SL used to provide a slick decorative surface on the indoor go kart track at Ferrari World, Abu Dhabi.

**X-Tech EpoxyFloor TF**

Abrasion and chemical resistant epoxy floor screed

**Uses:** Provides a heavy duty, extremely hard wearing, slip resistant surface for use in a variety of applications such as workshops, slaughter houses, battery rooms and chemical process areas.

**X-Tech EpoxyFloor TU**

High strength trowelable underlay

**Uses:** Provides an economical method of levelling floors prior to laying epoxy screed, toppings or coatings such as X-Tech EpoxySeal FLR55, X-Tech EpoxySeal FLR100 and X-Tech EpoxyFloor SL.

**X-Tech EpoxySeal FLR55**

High performance floor coating for concrete

**Uses:** General purpose chemical and abrasion resistant floor coating for use where high film build is not required.

**X-Tech EpoxySeal FLR100**

Chemical resistant high build epoxy floor coating

**Uses:** Internal coating of floors subject to traffic and/or chemical attack. High film build, solvent free.

**X-Tech Primer Filler**

Epoxy bug hole filler and primer

**Uses:** To condition concrete surfaces prior to applying coatings and flooring systems.

**X-Tech UraFloor CS**

Heavy duty polyurethane screed and mortar for cold stores

**Uses:** X-Tech UraFloor CS is used in heavy duty applications in cold store, freezer and other sub zero applications.

**X-Tech UraFloor HTSL**

Heavy duty self-leveling polyurethane flooring for high temperature application

**Uses:** Used in heavy duty applications such as kitchens, food processing, brewing and chemical and engineering process areas.

**X-Tech UraFloor SL**

Abrasion and chemical resistant self leveling urethane floor

**Uses:** Provides a long lasting, durable, steam cleanable floor surface for use in a variety of applications such as food and beverage plants, hospitals, pharmaceutical plants and laboratories.

**X-Tech UraFloor TF**

Abrasion and chemical resistant urethane floor screed

**Uses:** Provides a heavy duty, steam cleanable, extremely hard wearing, slip resistant, surface for use in a variety of applications such as, workshops, slaughterhouses, battery rooms and chemical process areas.

**Primers****X-Prime Fast**

Fast curing epoxy primer for concrete

**Uses:** Used as a prime to allow same dry over coating

**X-Prime MT100**

High performance moisture tolerant primer for epoxy coating and floor systems

**Uses:** Used as a primer for a wide range of epoxy coatings and floor systems on substrates that have a moisture content up to 7%.

**X-Prime OilStop**

Vapor barrier and primer for oil contaminated concrete floors

**Uses:** Floors, pump pads, trenches, sumps & drains

### **X-Prime RSA**

Resin surface activator for resin floors

**Uses:** Recoating when over-coating times have been missed or when overcoating old resin floors.

### **X-Prime SF**

High performance primer for epoxy coating and floor systems

**Uses:** Primer for epoxy coating and floor systems.

### **X-Prime WD**

Potable water grade water dispersed epoxy primer

**Uses:** For priming of concrete and masonry surfaces prior to applying a top coat.

### **X-Shield VaporStop HB**

Epoxy primer for oil contaminated concrete floors and vapor barrier

**Uses:** Elimination of out gassing and osmosis of poorly waterproofed concrete prior to application of coating systems. Conditioning of oil contaminated floors.



X-Tech Formula X, X-Tech PolishCoat, X-Seal HD80, X-Tech EpoxySeal FLR 100 and X-Joint Mechanical Joints were used at this pharmaceutical distribution facility in Nairobi, Kenya.

## **JOINTS**

### **Joint Sealants**

#### **X-Seal CladSeal HPA**

High performance high adhesion acetic cure silicone sealant

**Uses:** General purpose sealing of non porous surfaces. Can also be used as a general purpose adhesive. Cannot be used on alkaline surfaces such as concrete, masonry and stone.

#### **X-Seal CladSeal HPS**

High performance high adhesion neutral cure silicone sealant

**Uses:** Sealing of contraction and expansion joints in cladding and concrete. Can also be used as a general purpose adhesive.

#### **X-Seal FlamJoint A10**

Low modulus firestop sealant

**Uses:** Non-intumescent acrylic latex fire stopping sealant. UL approved. Used in situations such as sealing of pipe penetrations that do not require the sealant to intumesce.

#### **X-Seal FlamJoint A14**

Low modulus intumescent sealant

**Uses:** Intumescent acrylic latex fire stopping sealant. UL approved. Used in situations such as around door leaves that require the sealant to intumesce, expand and seal the air gap in the event of fire.

**X-Seal FlamJoint S60**

Low modulus firestop sealant

**Uses:** *Non-intumescent acrylic latex fire stopping sealant. UL approved. Used in situations such as sealing of pipe penetrations that do not require the sealant to intumesce. Faster curing than FlamJoint A10.*

**X-Seal FR200**

Polyurethane jet fuel resistant joint sealant

**Uses:** *Sealing of expansion and construction joints in airports, industrial plants and waste water facilities.*

**X-Seal HD80**

Chemical resistant joint sealant

**Uses:** *Joints subject to chemical attack in waste water and industrial facilities.*

**X-Seal JointFlex**

High performance siliconized acrylic and paintable gap filler

**Uses:** *Transition joints e.g.: Sanitary ware to tile*

*Tile to door and window frames, sink to tile, worktop to tile and metal to tile.*

*Sealing around window and door frames, sealing of drywall.*

**X-Seal MS25**

One part fast curing paintable low modulus hybrid sealant

**Uses:** *High movement joints, Construction joints, Crack sealing, General purpose adhesive, General purpose joint sealing, Joint sealing of:*

*Highway structures, Precast units, Basements, Cladding, Floors, Subways*

**IMPORTANT NOTE:**

**Our range of silicone sealants are high end certified products and should not be compared against the low end products generally sold in many markets. We are a competitive high end supplier and our products compete against those supplied by the Big Three silicone manufacturers.**

**SILICONE SEALANT COLOR MATCHING:**

**The latest manufacturing technology means we can produce virtually any color you desire. Minimum order is only 1200 x 300ml cartridges. Just let us have a RAL, BS or other color reference or send us a sample of the color and we will do the rest.**

**X-Seal PS800**

Polysulphide potable water grade joint sealant

**Uses:** *Sealing of expansion joint in concrete and masonry structures. Can be used in potable water retaining structures.*

**X-Seal PU25**

One part fast curing low modulus polyurethane sealant

**Uses:** *High movement joints, Construction joints, Crack sealing, General purpose joint sealing & Joint sealing of Highway structures, Precast units, Basements, Cladding, Floors & Subways*

**X-Seal PU50**

One part fast curing low to medium modulus polyurethane Sealant

**Uses:** *Movement joints, Construction joints, Crack sealing & General purpose floor joint sealing*

**X-Seal PU600**

Two component polyurethane joint sealant

**Uses:** Sealing of expansion and control joints in concrete and masonry structures. Gun grade and pouring grades are available.

**X-Seal SaniSeal HP20**

High performance long service life silicone acrylic sealant

**Uses:** Mildew resistant sealant for use in bathrooms and kitchens and a wide variety of general purpose applications such as sealing around windows and doors. Interior and exterior. Minimum 20 year service life.

**X-Seal Silicone GP**

General purpose acetoxo cure silicone sealant

**Uses:** Seals glass windows, aluminium fabrication, sealing heating, ventilating or air conditioning duct work. Seal cracks or gaps around windows, vents, ducts, fixtures and lights. Seal leaks in gutters, down spouts, ducts and piping. Seal cracks in interior walls and ceilings, door joints and fixtures. Seal electrical connections and boxes to waterproof.

**X-Seal TrafficLoop**

Flexible cable loop and airfield lighting sealant

**Uses:** Sealing of cable slots for traffic lights and airfield lighting. Also used to grout airfield lighting.

**X-Seal WeatherStop**

Low modulus neutral cure silicone sealant

**Uses:** Sealing of: Window frames, door frames, panels and cladding

**Joint Fillers****X-Seal JointBoard FXL**

Bitumen impregnated fiberboard joint filler

**Uses:** General purpose joint filler board for use in non-immersed and normal loads. Not recommended for use in immersed conditions.

**X-Seal JointBoard P60**

Polyethylene water and rot proof joint filler boards

**Uses:** As a longer lasting alternative to bitumen impregnated joint filler boards. Debonding and support of joint sealants in vertical wall and medium load bearing joints in slabs. Not for use in joints subject to hydrostatic head.

**X-Seal JointBoard SR**

Neoprene rubber joint filler

**Uses:** Used where a high load capacity joint filler board is required.

**X-Seal JointBoard XL**

High performance water and rot proof joint filler boards

**Uses:** Debonding and full load support of joint sealants in all joints. Can be used in immersed conditions in potable and waste water applications. Manufactured from cross linked polyethylene.

**X-Seal JointCord**

Closed cell joint backer rods

**Uses:** Debonding and support of joint sealants in vertical and overhead joints. Also allows correct sealant depth to width ratio to be achieved.

## Jointing Products

### X-Seal JointBand

Joint sealing and protection over banding system

**Uses:** Repair of failed joints, high performance joints in immersed conditions, joints subject to chemical attack.

### X-Seal SantoSeal Gaskets

Fire resistant panel gaskets

**Uses:** Sealing of joints in precast panel and between panel segments.

### X-Seal 3C AF

Ready to use caulking cord for sealing joints subject to hydrostatic pressure

**Uses:** Precast concrete pipe and tunnel segment joints, box culverts, manhole frames and sections, cast iron pipe joints. Can be used in damp and wet conditions.



X-Joint expansion joint systems were used at the Savico Mall  
Ho Chi Minh City, Vietnam

## GROUTS AND ADHESIVES

### Anchor Grouts

#### X-Tite ResiLoc EX22

High performance cartridge epoxy resin anchor

**Uses:** Starter bars, anchor bolts, anchor sockets & threaded studs

#### X-Tite ResiLoc H

General purpose pumpable resin anchor grout

**Uses:** Anchoring of bolts, dowels and starter bars in concrete, rock and solid masonry (horizontal).

#### X-Tite ResiLoc P

Polyester resin anchor grout

**Uses:** Anchoring of bolts, dowels and starter bars in concrete, rock and solid masonry (vertical).

### Civil Engineering Grouts

#### X-Tite Admix UW

Antiwashout grout admixture for underwater use

**Uses:** Powder additive for cement grout and concrete to minimize washout when placed underwater.

#### X-Tite BridgeBearing Grout

High strength shrinkage compensated grout

**Uses:** Precision grouting of bridge bearings, base plates, anchor bolts, crane rails, columns and pre-cast elements

#### X-Tite CableGrout

High performance fluid grout for post tensioned cables

**Uses:** Post tensioned cables and rods, Anchors.

#### X-Tite Construction Grout

General purpose non-shrink grout

**Uses:** General purpose grouting of elements where dual shrinkage compensation is not required.

#### X-Tite EpoxyGrout HT

Extreme temperature, high strength grout for heavy dynamic and static loads

**Uses:** A free flowing epoxy grout where the mechanical properties and heat resistance of the hardened grout must be of the highest order. Applications include heavy duty supports beneath crane and transporter rails, high speed turbines and centrifuges, drop forges, reciprocating machinery and other operating or test equipment subject to heavy dynamic or repetitive loads. Suitable for high temperature works up to 160°C.

#### X-Tite EpoxyGrout 150

Multipurpose epoxy grout

**Uses:** Multipurpose flowable epoxy grout that can be used to grout gaps from 1/2" (12mm) to 6" (150mm). Can also be used for anchor and bolt grouting, concrete repair, bedding of bridge bearings and pile cap re-profiling.



X-Tite EpoxyGrout 150 was used to grout these 30 MW electricity generators, Sharjah, United Arab Emirates.

### **X-Tite Grout Expansion Agent**

Shrinkage compensating plasticising additive for cementitious grout

**Uses:** *A powder additive added to site grout and concrete mixes to provide non-shrink properties, increased compressive strength, better flow and improved durability.*

### **X-Tite Performance Grout**

High performance shrinkage compensated grout

**Uses:** *Precision grouting of anchor bolts, base plates, crane rails, bridge bearings, columns and precast elements.*

### **X-Tite ThickBed Grout**

Thick section shrinkage compensated grout

**Uses:** *Anchor bolts, crane rails, bridge bearings & pre-cast elements*

### **X-Tite Underwater Grout**

General purpose non-shrink grout for underwater use

**Uses:** *Underwater grouting and concrete repair.*

## **Injection Grouts & Ancillaries**

### **X-Inject WS100**

PU injection foam to stop water leakage in concrete

**Uses:** *Rapid sealing of leaking cracks in concrete structures.*

### **X-Inject WS108**

PU injection foam to stop water leakage in concrete

**Uses:** *Rapid sealing of leaking cracks in concrete structures.*

### **X-Inject PU211 & PU221**

Flexible polyurethane injection resin system

**Uses:** *Permanent, flexible sealing of cracks in concrete structures, liquid retaining structures, sewage treatment plants, basements, beams, slabs, columns & construction joints*

**X-Inject PU211** (Base:Hardener 1:1 by volume)

**X-Inject PU221** (Base:Hardener 2:1 by volume)

### **X-Inject PU311 & PU321 Stop N Seal**

Dual function polyurethane injection resin to stop water leaks and seal cracks in concrete

**Uses:** *Stopping water leaks in concrete, permanent, flexible sealing of cracks in concrete structures, liquid retaining structures, sewage treatment plants, basements, beams, slabs, columns & construction joints*

**X-Inject PU311 Stop N Seal** (Base:Hardener 1:1 by volume)

**X-Inject PU321 Stop N Seal** (Base:Hardener 2:1 by volume)

### **X-Inject PU411 High Strength**

Rigid high strength PU injection resin for sealing cracks

**Uses:** *Permanent sealing of cracks in concrete, beams, columns & slabs*

### **X-Inject PU511**

Flexible hybrid acrylic-polyurea gel

### **X-Inject AP511 Super Gel**

Flexible hybrid acrylic-polyurea hydrophilic gel

**Uses:** *Curtain injection in basement slabs & walls, reinstatement of failed waterproof membranes & sealing fine cracks, kicker and construction joints*

### **X-Inject PU611 Strong Foam**

Rapid foaming, short pot life polyurethane resin.

**Uses:** *Secant piles, diaphragm walls, cut and cover tunnels, bored tunnels, basements, rapid foaming resin for stopping high volume & pressure water leaks*

## X-Inject EP211 & EP200

Low viscosity epoxy injection resin

**Uses:** *Injecting cracks in concrete structures to provide a rigid, structural seal. Sealing of cracks and crazing. Thin <10mm gap, base-plate grouting Anchoring of small diameter rebar and studs.*

**X-Inject EP211** (Base:Hardener 1:1 by volume)

**X-Inject EP200** (Base:Hardener 2:1 by volume)

## X-Inject UFC

High performance ultra fine injection cement

**Uses:** *Geotechnical grouting & crack and void injection in concrete.*

## X-Inject EP Flex

Flexible epoxy injection and flowable grout

**Uses:** *Crack injection of concrete structures by pressure injection and gravity feed. Sealing of cracks and crazing. Thin gap base plate grouting & anchoring of small diameter rebar and studs.*

## X-Inject Surface Sealer

Epoxy resin based surface sealer and crack filler

**Uses:** *Sealing cracks in concrete preventing the escape of resins during the injection process. Fixing surface mounted injection packers to concrete surfaces.*

## Packers

### Aluminum Packers

Sizes:

- 13 x 100mm
- 13 x 150mm

**Uses:** *For ensuring the injected materials reach, and remain, in the desired location with the minimum of resin wastage.*



### Steel Packers

Sizes

- 13 x 100mm
- 10 x 95mm

**Uses:** *For ensuring the injected materials reach, and remain, in the desired location with the minimum of resin wastage.*



### Hi-Flow Packers

Sizes:

- 18mm diameter x 150 to 350mm.

**Uses:** *When high volumes of resin need to be injected into leaking structures.*



## Pumps

### Electric Single Component

For injection resins with long pot life (+30 minutes at 25°C.) Suitable for epoxy and polyurethane based resins.

### Air Driven Single Component

For injection resins with long pot life (+30 minutes at 25°C.) Suitable for epoxy and polyurethane based resins.

### Air Driven Two and Three Component

For injecting 1:1 by volume polyurethane, acrylic, & epoxy resins with a mixed pot life from 15 seconds to several hours.

## Construction Adhesives

### X-Tite ContactFix WP

Water resistant multi purpose contact adhesive

**Uses:** General purpose adhesive for internal use. Applications include bonding of carpet to underlay and bonding of veneers and laminates to MDF.

### X-Tite SBA MT

Multi temperature grade two part epoxy segmental bridge adhesive

**Uses:** Can be applied over a wide temperature range, Non slump, Non shrink, Primerless, High strength and high modulus, Single face application, Easy to pour hardener component, Can be applied to damp substrates and during rain shower



X-Tite SBA used for joining precast segments on the Hong Kong-Zhuhai-Macao Bridge

### X-Tite StrongBond

High strength epoxy adhesive

**Uses:** General purpose bonding of a wide range of materials. Very high bond strength. Can also be used as a bedding mortar and anchor grout.

## Tile Adhesives & Grout

### X-Tile BondSeal

Combination bonding aid and sealer for natural stone

**Uses:** Used as bonding aid and a sealer to prevent the ingress of moisture and salts into natural stone. Single component and easy to use.

### X-Tile CTA

Cementitious water resistant tile adhesive

**Uses:** Bonding of tiles in interior and exterior situations.

### X-Tile CTA LM

Latex modified tile adhesive

**Uses:** Internal tiling in Commercial buildings, Residential buildings and Institutional buildings

### X-Tile ETA4

Two component epoxy tile and stone adhesive

**Uses:** In tiling situations where high adhesion and chemical strength are required. It is suitable for use with all types of stone and tiles including glass mosaic tiles. It is also used for bonding VCT and vinyl sheet. A conductive version is available for use with conductive floor finishes.

### X-Tile Fix

General purpose economical tile adhesive

**Uses:** Internal tiling in commercial buildings and residential buildings

### X-Tile FlexCoat TBC

Polymer modified flexible cement bond coat for tiles

**Uses:** Resurfacing of tile facades prior to the application of decorative coatings.

### **X-Tile FTA**

Thin bed flexible adhesive for natural stone and low porosity tiles

**Uses:** *Internal and external fixing of: Natural stone, Glass mosaic, Glass brick, Ceramic tiles and Porcelain tiles.*

### **X-Tile Grout EJ**

Water dispersed epoxy tile grout

**Uses:** *Grouting of tiles and stone in situations subject to dynamic loads and chemical attack. Also used in areas subject to high wear.*

### **X-Tile Grout TJ**

General purpose tile grout

**Uses:** *Grouting of tiles and stone.*

### **X-Tile Grout WJ**

Polymer modified wide joint tile grout

**Uses:** *Crack resistant grouting of tile joints that are wider than 1/4" (6mm).*

### **X-Tile STA**

Thin bed adhesive for low porosity natural stone and tiles

**Uses:** *For use with low porosity tiles e.g. glass mosaic or porcelain tiles and natural stone tiles. Non staining.*

### **X-Tile TBA**

Thick bed tile adhesive

**Uses:** *For use with tiles and natural stone in applications that require a dry mix thick bed adhesive.*



X-Tite ETA4 used as stone cladding adhesive in the Marina Bay Sands Resort, Singapore

## **WATERPROOFING SYSTEMS**

### **Liquid Applied Waterproofing**

#### **X-Pruf BitMastic**

Polymer modified asphalt sealing compound

**Uses:** *Sealing of gaps on roofs. Termination chase seal for waterproofing membranes. Sealing of pipe penetrations for waterproofing membranes. Sealing cracks in asphalt and concrete pavements. Construction joint sealant for concrete pavements and canals.*

#### **X-Pruf CrystalCoat**

Cementitious crystalline waterproofing coating that penetrates new and old concrete to resist hydrostatic pressure

**Uses:** *Exterior (positive side) or interior (negative side) waterproofing. Below or above grade basements, foundations, retaining walls and water tanks.*



### **X-Pruf ElastoCem**

High technology polymer modified elastomeric waterproofing membrane system for concrete and masonry surfaces

**Uses:** *X-Pruf ElastoCem when fully cured, provides a seamless elastic waterproof membrane for use in roof areas, wet areas, pre-cast joints where a tough elastomeric water tight membrane is required.*

### **X-Pruf PU2**

Two part polyurethane elastomeric liquid applied membrane

**Uses:** *High performance fast cure liquid applied sheet membrane for use in difficult to waterproof applications such as wet area in public facilities and water features.*

### **X-Pruf RBE**

Asphalt/latex emulsion used for general purpose damp proofing and curing

**Uses:** *Damp proofing membrane and curing compound for below grade application. Can be used to bond insulation boards and joint fillers. Also available with a higher latex content (X-Pruf HLE).*

### **X-Pruf RB Membrane**

Liquid applied high build high performance polymer modified asphalt

**Uses:** *For use in situations where higher build and higher elongation are required over normal rubberized bitumen emulsions such as wet areas, inverted roofs and ground slabs.*

### **X-Pruf SBE**

Asphalt emulsion used for general purpose damp proofing and protection

**Uses:** *General purpose protective coating for below grade damp proofing and curing compound.*

### **X-Pruf TP80**

One part tar extended urethane elastomeric liquid applied membrane

**Uses:** *High performance liquid applied sheet membrane for use in difficult to water proof areas such as roofs or walls with lots of up stands or protrusions. Excellent for pile caps.*

### **X-Pruf 3416**

Liquid applied solvented asphalt coating

**Uses:** *A liquid applied asphalt membrane complying with the requirements of British Standard 3416 used to protect concrete structures against the ingress of salts and other aggressive soil conditions. Can also be used on most metals.*

### **X-Pruf 836HE**

Single component high elongation modified polyurethane waterproofing membrane

**Uses:** *A liquid applied sheet membrane for use when ASTM C836 performance criteria is specified. Can be applied in a single coat.*

## **Bitumen Membranes**

### **X-Pruf FG Membrane**

Fiber glass reinforced bituminous self adhesive membranes

**Uses:** *Below grade waterproofing, above grade waterproofing, waterproofing of concrete slabs and damp proofing*

### **X-Pruf PE Membrane**

High elongation composite polyethylene bitumen composite self adhesive membranes

**Uses:** *General purpose waterproofing of high movement applications such as basements, tunnels and underground storage tanks where high elongation is required. Available in a range of thicknesses.*

### **X-Pruf Primer S**

Asphalt primer for sheet membranes

**Uses:** *Primer coat for X-Pruf self-adhesive and torch-on membranes.*

### **X-Pruf Primer WB**

Water based non-flammable sheet membrane primer

**Uses:** As a primer for sheet membranes when solvent primers cannot be used because of fire or ventilation issues.

### **X-Pruf ProtectBoard**

Asphalt based protection board

**Uses:** Protection of waterproofing systems against penetration damage from backfilling and construction activities.

### **X-Pruf PR100 Membrane**

2.3mm polyester reinforced asphalt sheet membrane

**Uses:** Basement and deck waterproofing when high puncture resistance is required.

### **X-Pruf TapeSeal BM**

Double sided asphalt adhesive tape

**Uses:** Fixing of protection boards, Sealing of protection board joints, Flashing around penetration & Fixing of PVC angle fillets

### **X-Pruf TorchOn Membrane**

Polymerized bitumen torch on membrane

**Uses:** A range polymer modified bitumen polyester reinforced composite, hot applied heavy duty waterproofing membranes for use in most waterproofing applications.

### **X-Pruf XL Membrane**

Cross laminated composite bituminous self adhesive membranes

**Uses:** General purpose waterproofing applications such as planters, walls and basements where high tensile strength is required.

Available with 100 micron and 200 micron cross laminated carriers. The 200 micron carrier provides higher tensile strength and improved puncture resistance. Available in a range of thicknesses.



Wood deck balcony waterproofing using ProFlex TwoTopeka Kansas USA.

## **Mechanically Bonded Membrane Liner and Drainage and Insulation Boards**

### **X-Pruf KeyLok**

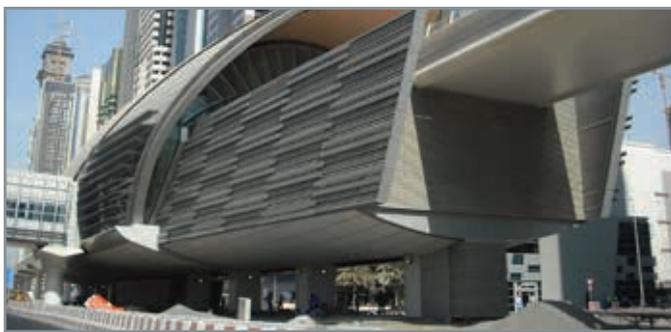
Pre-applied mechanically bonded waterproofing membrane liner

**Uses:** Chemical resistant and gas resistant HDPE or PVC integral waterproofing membrane and lining system for use where an extremely high level of waterproofing and protection is required.

### **X-Pruf PolyLiner PVC**

High performance waterproofing membrane & liner

**Uses:** X-Pruf PolyLiner PVC has been developed to provide a tough chemical resistant water and gas proof membrane liner for the following applications: water features, artificial lakes, canals, settling lagoons, tunnels, basements, landfill sites, brownfield sites and roofs (UVR grade).



Concrete Repair Coating and Waterproofing Systems used in Dubai Metro.

### X-Pruf SoundStop Mat

Acoustic isolation membrane

**Uses:** Used as an underlay beneath thin bed tile adhesive to suppress impact noise and reduce sound transmission. Also acts as an isolation layer between the concrete slab and floor finish that prevents stress related cracks.

### X-Pruf SuperTack Tape

High strength, high tack polyester reinforced seam and flashing tape

**Uses:** Metal seam joints, metal flashing, roof repair, balcony repair, plywood joints and seams, waterproofing, gutters & concrete cracks

### X-Pruf XPS40

Extruded polystyrene rigid foam insulation board

**Uses:** Thermal insulation board for roofs, floors & walls

## Injection Waterstops

### X-Tite InjectaHose

Injectable water stop system

**Uses:** Provides a back up water stop that can be injected with a water-stopping resin should a leak occur after construction.



X-Pruf KeyLok used as beneath slab waterproofing on the Midfield Terminal, Hong Kong International Airport

## Waterstops

### X-Stop CF250C

Thick web construction joint rear fix 250mm wide

**Uses:** For use in construction and contraction joints in the center of the section (such as kickers and day work joints).



### X-Stop CF250X

Thick web expansion joint center fix 250mm wide

**Uses:** For use in expansion joints in the center of the section (such as walls).



### X-Stop RF250C

Thick web construction joint center fix 250mm wide

**Uses:** For use in construction and contraction joints at the rear of the section.



### X-Stop RF250X

Thick web expansion joint rear fix PVC waterstop 250mm wide

**Uses:** For use in expansion joints at the rear of the section in slabs and walls.



Above profiles can also be supplied in 150, 200 and 300mm widths. In addition X-Calibur can manufacture virtually any PVC waterstop profile at short notice. Please advise your specific requirements.

### X-Stop HWS Waterstops

Extruded hydrophilic waterstop

**Uses:** Construction joints, pile caps, basements, raft slabs, secant piles and sheet piles

### X-Stop SwellSeal

One part hydrophilic adhesive and sealant

**Uses:** Bonding of hydrophilic waterstops, Construction joints, Watertight pipe penetrations, Sealing of reinforcing bars in pile caps, Sheet pile connecting joints & Diaphragm walls joints

## Waterproofing Admixtures for Concrete

### X-Pruf CrystalMix

Powder crystalline waterproofing additive for concrete

**Uses:** To increase strength and watertightness of concrete mixes.



### X-Mix IWA

Concrete integral waterproofing admixture

**Uses:** As an integral waterproofer for structural and precast concrete.

### X-Mix WPL

Hydrophobic pore-blocking waterproofing admixture

**Uses:** X-Mix WPL will drastically reduce water absorption in structural and precast concrete. It is suitable for use in below ground structures, reinforced concrete in marine areas, piles, water retaining structures, manholes, waste water treatment and desalination plants.

## SURFACE TREATMENTS FOR CONCRETE

### X-Cure WB75

Waterbased 75% efficient curing compound

**Uses:** General purpose curing of mortars and concrete in normal ambient conditions.

### X-Cure WB90

High performance water-based curing compound

**Uses:** Minimizes water loss of concrete, improving permeability, durability and reducing shrinkage cracks.

### X-Form GP

Concrete form chemical release agent

**Uses:** Release agent on all form work particularly useful for preventing corrosion of steel forms.

### X-Form WB

Form release emulsion

**Uses:** Release agent on all form work particularly useful for white concrete.



X-Cure WB applied to concrete taxiways Hong Kong International Airport (joints were sealed with X-Seal FR200).

### **X-Tard SR**

Waterbased surface retarder for construction joints

**Uses:** *To ensure maximum performance of construction joints and eliminating the need for mechanical preparation. Can also be used to receive toppings and coatings. Brush and spray on grades available.*

### **X-Treat AcidWash**

Concrete remover and etch

**Uses:** *Preparation of walls and floors to receive coatings and paints. Cleaning of cement and concrete from equipment.*

### **X-Treat RustRemover**

Rust remover and converter

**Uses:** *Rust removal, conversion of rust to a light phosphate coating to allow over-coating.*

### **X-Treat Substrate Cleaner**

High power biodegradable citrus-based degreaser and cleaner

**Uses:** *Removal of grease, oil, tar and asphalt from brick, concrete, metal and plastic substrates.*

## **ADMIXTURE FOR CONCRETE**

### **Hyper Plasticisers**

#### **Xtreme ES50D**

High range water reducing agent for high early strength concrete

**Uses:** *Pre-cast concrete units, bridge and tunnel segments, elevated slabs & decks & Hollow core floor units.*

#### **Xtreme WR40DE**

High range water reducing and workability retention superplasticiser

**Uses:** *Ready mix concrete, batched concrete with long transit or waiting time & pumped concrete.*

#### **Xtreme WR40DR**

High range water reducing and workability retention superplasticiser

**Uses:** *Ready mix concrete, site batched concrete with long transit or waiting time & pumped concrete*

### **Superplasticisers**

#### **X-Mix HPN**

High performance superplasticising admixture

**Uses:** *Produces high workability or very high strength concrete without have a great effect on retardation.*

#### **X-Mix HPR**

High range water reducing and retarding superplasticiser for use in high performance concrete

**Uses:** *Produces high workability or very high strength concrete for use in high ambient temperatures or when extended workability is required. Particularly useful in mixes containing micro silica.*

### **X-Mix PC30**

Ultra high range retarding superplasticiser

**Uses:** *X-Mix PC30 is suitable for use with all types of ordinary Portland cements, sulfate resisting cement and pozzolanic materials such as PFA, GGBFS and microsilica.*

### **X-Mix SP80**

High performance superplasticising & workability retention admixture

**Uses:** *X-Mix SP80 is suitable for use with all types of ordinary Portland cements, sulfate resisting Portland cement and pozzolanic materials such as PFA, GGBFS and microsilica.*

### **X-Mix MRA**

High performance mid-range admixture

**Uses:** *To significantly reduce the water demand of a concrete mix without reducing workability, allowing greatly increased early and ultimate strengths without additional cement. To significantly improve the workability of concrete without increasing water demand. Particularly suitable for increasing workability of ready mixed concrete at elevated temperatures. To reduce concrete permeability and thereby reduce water penetration and enhance durability.*

## **Plasticisers**

### **X-Mix RPR**

Retarding water reducing admixture

**Uses:** *X-Mix RPR is suitable for use with all types of ordinary Portland cements, sulfate resisting Portland cement and pozzolanic materials such as PFA, GGBFS and microsilica.*

### **X-Mix RPS**

Retarding water reducing admixture

**Uses:** *Reduction of water demand and retardation of concrete mixes.*

### **X-Mix WRA**

Water reducing admixture

**Uses:** *To improve the effectiveness of the water content of a concrete mix. At higher dosages to provide a cost effective means of reducing concrete permeability and thereby reducing water penetration.*

## **Specialty Admixtures**

### **X-Mix CableGrout Additive**

Cementitious grout admixture for post tensioned cables

**Uses:** *For pumped or free flow grouting, it can be used in a wide range of applications post tensioned bridge deck ducts, prestressed structural element cables ducts and slip form silo tendon ducts*

### **X-Mix FastSet AF**

Alkali free sprayed concrete accelerator

**Uses:** *Accelerating the set of sprayed concrete/gunite to increase the rate of stiffening reduce rebound.*

### **X-Mix FCA**

Foaming agent for low density concrete

**Uses:** *Trench filling for permanent, non-sink reinstatement. Void filling for elimination of fire risk, health hazards and control of progressive collapse in areas such as disused solvent and fuel tanks, below railway platforms, old mine workings and redundant sewers. As a lightweight insulating material for roof screeds, suspended floors and basements. As a semi-structural support in cases such as embankments, bridge abutments, tunnels and arches.*

### **X-Mix TG-A**

Tunnel Grout Accelerator

**Uses:** *Used in activating the setting times of cement mortars or slurries used for injection grouting. Used for injecting cementitious mixes used in backfill grouting behind the precast concrete segments in tunnels excavated by means of Tunnel Boring Machines (TBM). It also increases the viscosity of cement-based mixes, even when manufactured with a high water/ cement ratio.*

### **X-Mix TG-R**

Tunnel Grout Retarder

**Uses:** X-Mix TG-R is designed for the mixes which require long workability. Used for injecting cementitious mixes used in backfill grouting behind the concrete lining in tunnels excavated by means of Tunnel Boring Machines (TBM).

### **X-Mix UW**

Underwater concrete admixture system

**Uses:** X-Mix UW is an admixture system specially designed to allow concrete to be placed underwater, Increases the cohesion of concrete mixes and minimizes washout. Produces well compacted high quality concrete.

## **Durability Enhancers**

### **X-Mix MS920D**

Densified microsilica

**Uses:** X-Mix MS920D is used in concrete to meet the most demanding applications for high strength, chemical and abrasions resistant, such as high rise construction, bridge construction, concrete slip ways, dam spillways and hard standings and concrete piles and foundations

### **X-Mix MS920U**

Undensified microsilica

**Uses:** X-Mix MS920U is used in concrete to meet the most demanding applications for high strength, chemical and abrasions resistant, such as high rise construction, bridge construction, concrete slip ways, dam spillways and hard standings and concrete piles and foundations.

### **X-Mix PFA60**

High quality pulverized fly ash to improve concrete

### **X-Mix PPF**

High performance crack control micro fiber

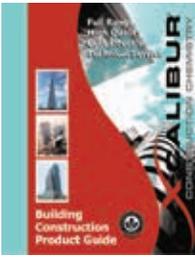
**Uses:** X-Mix PPF is primarily used as a crack controlling fiber for cementitious materials. Typical applications are crack control in ready mix concrete, precast concrete, conventional shotcrete, screeds, renders, mortars, micro-silica concrete, concrete slabs, pavements, driveways, imprinted concrete, explosive spall control.

#### **PLEASE NOTE**

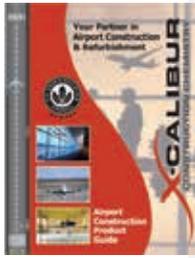
X-Calibur products are for industrial use only by trained operatives. The information contained in this booklet is intended as a summary only. Please refer to the technical data sheets before purchasing or using any product.

X-Calibur is proud to be an active member of the following organizations and is committed to playing an active role within the industry to help ensure continued high standards and provide our clients with the most appropriate solution.

## Market Segments



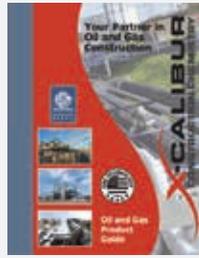
Building Construction Product Guide



Airport Construction Product Guide

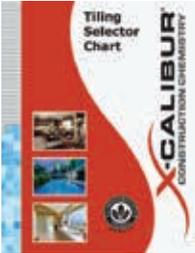


Waste Water Treatment Product Guide



Oil and Gas Construction Product Guide

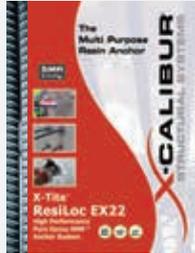
## Construction Products



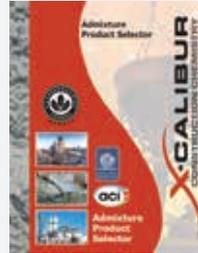
Tiling Systems



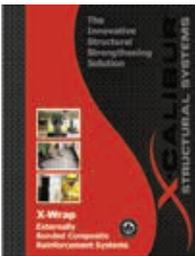
Crystalline Waterproofing



Resin Anchor Systems



Admixture Product Selector



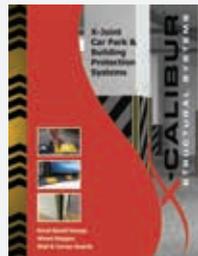
Carbon Fiber



Injection Resin Systems

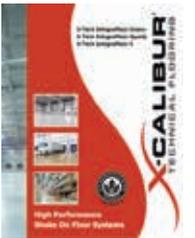


Waterstops

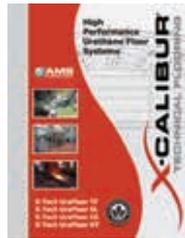


Building Protection Systems

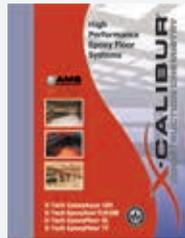
## Flooring



Shake On Floor Systems



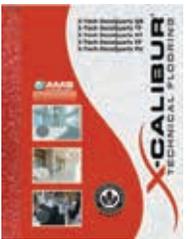
Urethane Floor Systems



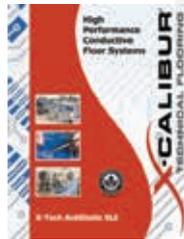
Epoxy Floor Systems



Car Parking Systems



Color Quartz



Conductive Floor Systems

## Joints



## A Professional Approach

X-Calibur is an active member of many professional trade associations that regulate and promote various aspects of the industry. We are members of:



INTERNATIONAL  
**CONCRETE REPAIR**  
INSTITUTE



American Concrete Institute



**CONSTRUCTION FIXINGS**  
association



INTERNATIONAL  
ORGANIZATIONAL  
MEMBER

American Society for  
Testing and Materials



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