

# QED SlabPatch™

## Fast setting concrete slab reinstatement micro concrete

### Product Description

QED SlabPatch is a single component, fast setting, fluid micro concrete manufactured from selected cements, aggregates and additives and has extremely high durability. It can be used at a range of workabilities.

### Advantages

- Rapid cure
- Fast return to service
- Can be extended with coarse aggregate
- Low permeability
- Excellent freeze/thaw resistance
- Single component

### Uses

Rapid reinstatement of:

- Parking garages
- Decks and slabs
- Factory floors

### Laboratory Test Data

Property	Typical Results			
	3hrs	24hrs	7 days	28 days
<b>Compressive strength</b> MPa	2800 (19)	4300 (29)	6800 (47)	7800 (53)
<b>Flexural strength</b> MPa				1200 (8)
<b>Initial set</b>	<20 minutes			
<b>Final set</b>	<30 minutes			
<b>Freeze/thaw resistance</b>	>99% after 300 cycles			

The above data is based on samples having a fluid consistency and cast at 25C.

### Packaging

25kg bags

Maximum water content: 4 quarts (3.8L) per bag

### Yield

Approximately 1 liters per bag.

Approximately 22 liters when extended with 23 kg aggregate.

### Shelf Life

12 months when stored at below 35C under shade in a dry environment.

### Installation Guidelines

QED Chemicals Limited 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 substrate must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. Saw cut around the edge of the repair to a minimum depth of 6mm.

Reinforcing steel should be fully exposed with enough room behind the steel to place the repair mortar.

### Protection of reinforcement steel

Remove all corrosion from the exposed steel in accordance with ICRI Technical Guideline No 03730. For additional protection against corrosion and to protect the adjacent edges of the repair, coat the steel with QED GalZinc. The steel may also be protected using QED EpoxyBond or QED Latex mixed with cement. Prior to using either of these products, please consult with an X-Calibur Authorized Technical Specialist.

### Substrate Priming

After surface preparation has been completed, the substrate should be soaked with water for a minimum of 2 hours and not allowed to dry out. No priming is required if the substrate is in a saturated surface dry (SSD) condition at the time of placing the mortar.

If the prepared substrate cannot be soaked or be in an SSD condition, then the substrate should be primed using either of the following methods:

#### • Priming with QED BondCure

QED BondCure is an acrylic bonding agent that is used undiluted straight from the pack. It is particularly useful in conditions where the bonding agent may dry out. Brush QED BondCure into the saturated surface dry substrate, taking care to avoid ponding or excessive application.

### •Priming with QED EpoxyBond

In immersed conditions; where the maximum possible bond strength is required, or where a saturated surface dry substrate is not possible, QED EpoxyBond should be used. Mix the entire contents of Part A with the entire contents of Part B until a uniform color is achieved. Brush the mixed material into the surface of the substrate, taking care to avoid ponding or excessive application. The mortar must be applied while QED EpoxyBond is still tacky.

### Mixing

Add QED SlabPatch to water and mix for a maximum of three minutes until fully dispersed. Use an QED approved forced action mechanical mixer. When coarse aggregate is added to the product, drum mixers can be used for mixing.

### Application

The mixed material should be applied immediately after mixing is completed. The material should be applied in such a way as to ensure thorough compaction around the reinforcement and against the edges of the reinstatement area. The repair is then finished by trowel.

### Thickness

The application thickness should be between 6mm and 100mm. The product can be filled out with 20mm graded aggregate up to 1:1 by weight and the maximum horizontal thickness increased to 250mm. Trial mixes must be carried out to determine the exact amount of aggregate that can be added and the water content to be used. Do not apply less than 25mm thick when extended with aggregate.

Applications in excess of the thickness quoted above may be achieved by "keying" the compacted layer and then applying QED BondCure. Once this layer has reached sufficient strength, apply a primer coat of QED BondCure and proceed as before.

### Curing

Cure immediately after finishing using QED BondCure or QED WB, or cure continuously in accordance with good concrete practise for seven days.

### Limitations

Ensure the temperature of the mortar does not exceed 35C at the time of mixing.

Do not mix by hand.

Do not part mix; use only full bags.

Do not apply in rain or wet conditions or at temperatures below 4C.

Lower temperatures produce a slower set; higher temperatures produce a faster set.

Do not expose to running water until the product is cured fully.

### 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.xqglobal.com](http://www.xqglobal.com).**

### 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.xqglobal.com](http://www.xqglobal.com) for a full list of X-Calibur ATSS.

### Datasheet Validity

QED Chemicals Limited makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.xqglobal.com](http://www.xqglobal.com) to ensure you have the latest version.

### Warranties

QED Chemicals Limited 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. QED Chemicals Limited 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 QED Chemicals Limited in writing within five working days of being detected. QED Chemicals Limited **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.** QED Chemicals Limited shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

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