

# Flexibilised Epoxy

# PLASTICAST LQB/LQG

## TECHNICAL DATA

### 1.0 DESCRIPTION

PLASTICAST LQB is a two-part epoxy compound formulated specifically for use in bitumen and asphaltic surfaces. It is used to encapsulate road traffic light signal cable loops, saw cut joints, cracks and repairs, etc. It is pigmented black. PLASTICAST LQB is internally flexibilised so as to allow differential movement without delamination, stress and cracking.

PLASTICAST LQB has low exotherm qualities. Two litres can be safely mixed with no residual stress.

PLASTICAST LQB has good water and mechanical resistance with exceptional insulating properties. It is unaffected by oil, diesel, petrol, etc.

### 2.0 PROPERTIES

2.1. Shelf Life	1 year (The hardener may require some mixing after prolonged storage)
2.2. Mix Ratio	Equal parts by volume Resin to Hardener to 3 volumes Silica Sand (1:1:3)
2.3. Pot Life	1.5 - 2 hours (Temperature dependent work time)
2.4. Full Cure	1 to 5 days.
2.5. Min. Application Temperature	10°C. Cold Curing formulation available on request
2.6. Colour	Black. Also available clear or grey (LQ & LQG)
2.7. Cured Properties	
2.7.1. Compressive Strength	Not Applicable. Flexible.
2.7.2. Bond Strength	Greater than surrounding asphalt.
2.7.3. Operating Temperature	-10°C - 100°C
2.7.4. Water Absorption	1.4mg / cm <sup>3</sup>
2.7.5. Dielectric Strength @ 50HZ	110KV.cm.

### 3.0 APPLICATION INSTRUCTIONS

Read this data sheet in conjunction with the product labels. Wear appropriate personal protective equipment when mixing and using this product. Use in a well-ventilated area. Before use, read the PLASTICAST LQB hardener and resin Material Safety Data Sheets.

- 3.1 **SURFACE PREPARATION:** Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance should be removed from concrete surfaces mechanically. For best results steel surfaces should be prepared by sand blasting or grinding. All surfaces should be dry. When used as a concrete tie coat, surfaces should be dry and completely free of dirt, rust, curing compounds, grease, oil, paint, waxes and other materials that would prevent a solid bond. For proper adhesion, DO NOT use a curing compound. Water cure where possible.

# PLASTICAST LQB

---

## TECHNICAL DATA Continued

---

### APPLICATION INSTRUCTIONS (continued)

#### SURFACE PREPARATION (continued)

Concrete should be cleaned by sandblasting or scabbling to a sound surface if required. Vacuum or blow dust away with oil-free compressed air. Any laitance must be removed prior to application of the epoxy as the laitance will be weak and not provide sufficient strength for the epoxy. All surfaces should be dry after preparation.

- 3.2 **MIXING:** Accurately proportion required volume of resin and hardener ensuring this amount can be used within its pot life. Mix thoroughly preferably using a paint stirrer fitted to a low speed electric drill. During the mixing process scrape the bottom and sides of the container at least once with a spatula or similar tool to ensure all components are incorporated. Slowly add sand while mixing (if used). Mixing should continue for approximately 5 minutes. Take care to avoid air entrapment. Allow to de-aerate for a few minutes and pour into joint.
- 3.3 Although dampness in the joint can be tolerated, water must not be allowed to become entrapped or mixed into the product.
- 3.4 Mix ratio: 1 litre resin to 1 litre Hardener (to 5 kg silica sand when used).
- 3.5 Mix only the amount of PLASTICAST LQB that can be used within its pot life.
- 3.6 **CLEAN UP:** Clean up tools, containers and hands with soap and water immediately after use.
- 3.7 Refer to product label for additional information. Refer to safety data sheet for first aid and handling information.

### 3.0 PACKAGING

10 litre packs



Leading solutions for construction.

The information contained in this data sheet, is to the best of our knowledge accurate and any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Users are urged to make their own assessment of our products under their own conditions and for their own requirements. Stratmore Construction Solutions Limited reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions. This data sheet may be updated without notice. Please ensure you have the latest copy. If you are a customer, then any contract with you is in accordance with our latest terms and conditions, which are available to download from our website. Where goods are acquired for business purposes, Parts 1 to 4 of the Consumers Guarantee Act 1993 will not apply. To the maximum extent permitted by law, we have no liability (whether statutory, in contract or tort, including negligence) to buyers, users or specifiers of our products for any physical, direct or indirect damage, economic loss or any other loss or costs caused or contributed by us or any of our agents or employees in respect of any goods or services supplied. Also to the maximum extent permitted by law, all conditions and warranties expressed or implied by statute or common law, equity, trade custom or usage or otherwise howsoever are excluded. If, notwithstanding the foregoing, Stratmore Construction Solutions Limited is found to have any liability, then it is agreed that the liability is nevertheless limited to the price of the relevant goods or services purchased from us.