

## X-Tite Performance Grout LA

Low alkali shrinkage compensated grout

50120106

### Product Description

X-Tite Performance Grout LA is a high performance and high flow cementitious grout. It has dual shrinkage compensation, providing non shrink properties in both the plastic and hardened state. It is membrane using low alkali cement and ground granulation blast furnace slag to prevent alkali silica reaction and to reduce the heat of hydration

### Advantages

- High flow
- Controlled expansion
- Shrinkage compensated
- Dimensionally stable
- Chloride free
- Can be used in contact with glass
- Can be in used with ASR reactive aggregate.

### Uses

- Base plate grouting
- Upstand grouting
- Gap filling
- Concrete repair

### Laboratory Test Data

Compressive strength	3 days >30MPa	7 days >40MPa	28 days >60MPa
Alkali Content:	< 0.4% Na <sub>2</sub> O equivalent		
Flow distances	Gap Depth	100mm Head	250mm Head
	5mm	0.5m	1m
	20mm	2m	>3m
	30mm	2.5m	>3m
	40mm	>3m	>3m

All above properties at a temperature of 20°C and a water/powder ratio of 0.18. Actual flow distance will be affected by surface preparation, temperature, water content, mixing time and the amount of head applied to the grout.

### Application Properties

Minimum grout depth	5mm
Maximum grout depth	200mm
Water content	4.25 to 4.75 liters per bag

### Packaging

25kg bags.

### Yield

Approximately 13.5 liters of mixed grout per bag. Yield will vary with water content.

### Shelf Life

12 months when stored between 5 and 30°C under shade in a dry environment.

### Installation Guidelines

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 substrates must be structurally sound. Loose or unsound concrete should be removed. Surfaces must be entirely free of oil, grease, paint, dust, laitance or other contaminants. Steel surfaces should be free from rust, oil and grease.

### Mixing

Mix small quantities one bag at a time using a slow speed (500rpm) drill and suitable mixing paddle. Mix large quantities using a high shear grout mixer. Add water first, then slowly add the powder into the water while mixing. After adding all the water, mix for up to 5 minutes or until the powder has fully dispersed and the grout has a flowable or fluid consistency.

### Grouting

Saturate porous substrates for at least 3 hours prior to pouring grout. Free water should be removed immediately prior to pouring. Pour the grout continuously and in such a way as to ensure no air is trapped. It may be necessary to provide relief holes, or run a chain or cable through the grout immediately

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after pouring. Formwork should be grout-tight and water tested prior to casting.

When used for vertical gap filling and grouting the product can be placed using a sealant barrel gun.

### **Curing**

Once the grouting has been completed, all exposed areas of grout should be cured immediately.

### **Limitations**

Do not mix using a drum mixer.

Do not use to grout aluminum objects.

Ensure mixed grout temperature does not exceed 30°C.

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.net](http://www.x-calibur.net).**

### **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.net](http://www.x-calibur.net) 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.net](http://www.x-calibur.net) 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 over 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 Systems 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 Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

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